# INJURIES

# 2008 DATA BOOK

Deval L. Patrick, Governor Timothy P. Murray, Lieutenant Governor

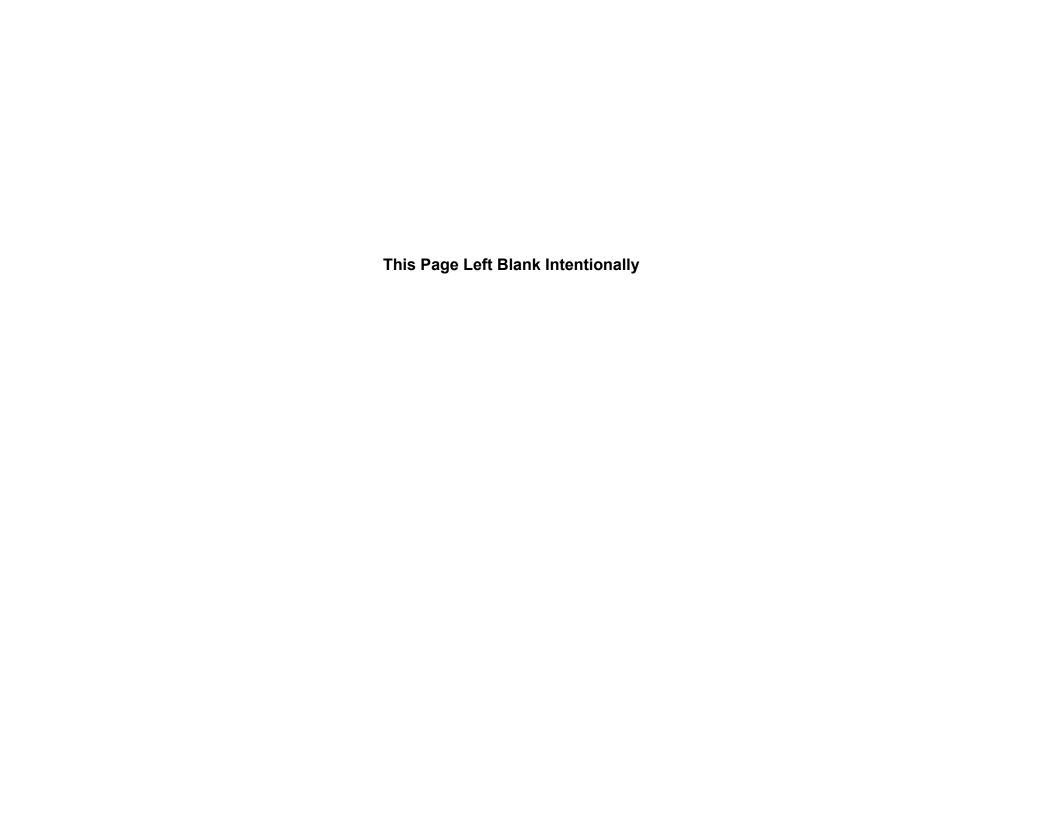
JudyAnn Bigby, MD, Secretary Executive Office of Health and Human Services

John Auerbach, Commissioner Massachusetts Department of Public Health

Jerry O'Keefe, Director Bureau of Health Information, Statistics, Research, and Evaluation

Victoria Ozonoff, Director Injury Surveillance Program

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## Notes, Information, and Acknowledgements

## 1) Purpose of Report

This publication is intended as a reference document. It provides basic counts and rates on a broad range of injury topics using death data and data submitted by Massachusetts acute care hospitals. Highlighted in the report are fall-related injuries, motor vehicle injuries, traumatic brain injuries, poisionings/overdoses, suicide and self-inflicted injuries, and homicide and assault-related injuries by state, region, and city/town. The Injury Surveillance Program (ISP) publishes additional data tables, reports, and bulletins on selected injury causes (e.g., fall-related Injuries, traumatic brain injuries) on-line at:

http://www.mass.gov/dph/isp

Information that is underlined can be clicked to link directly to the corresponding table.

## 2) Authorship

This report was prepared by the Injury Surveillance Program (ISP), Massachusetts Department of Public Health. Publication of the report was supported by cooperative agreement #U17/CCU124799 from the Centers for Disease Control and Prevention (CDC). Its contents are the responsibility of the authors and do not necessarily represent the official views of the CDC.

## 3) Data Sources

Source for all Massachusetts death data is the MA Registry of Vital Records and Statistics (RVRS), MA Dept. of Public Health. Sources for nonfatal injuries are from the Division of Health Care Finance and Policy (DHCFP) and include:

MA Inpatient Hospital Discharge Database

MA Outpatient Emergency Department Database

MA Outpatient Observation Stay Database

The MA Outpatient Observation Database includes patients who receive outpatient observation services and are not admitted to the hospital. Outpatient Observation services is defined generally for reporting purposes in the Case Mix Regulation 114.1 CMR 17.00 as: Observation services are those furnished on a hospital's premises which are reasonable and necessary to further evaluate the patient's condition and provide treatment to determine the need for possible admission to the hospital. These services include the use of a bed and periodic monitoring by a hospital's physician, nursing, and other staff.

Population data used to calculate rates (unless otherwise specified) are from the:

National Center for Health Statistics. Postcensal estimates of the resident population of the United States for July 1, 2000-July 1, 2008, by year, county, age, bridged race, Hispanic origin, and sex (Vintage 2008). Prepared under a collaborative arrangement with the U.S. Census Bureau; released May 14, 2009. Available from:

http://www.cdc.gov/nchs/nvss/bridged\_race.htm

## 4) Data Notes

- To facilitate data presentation, hospital discharges and observation stays are combined and referred to as "Hospital Stays" in selected tables.
- Emergency department visits are referred to in tables as "ED Visits."

## Notes, Information, and Acknowledgements (continued)

- The number and rate of nonfatal injuries based on less than 7 cases are suppressed in all tables. Suppression is based on the Division of Health Care Finance and Policy (DHCFP) rules pertaining to confidentiality.
- Death data from the RVRS are public and therefore small numbers are reportable. Rates are presented for general statewide tables, but suppressed for counts less than 5 for smaller groupings such as age group, specific cause, and region.
- Rates that are based on less than 20 cases may be unstable. Small fluctuations in the number of cases from year to year, can cause the rate to increase or decrease dramatically, therefore caution should be used when interpreting these rates.
- Statistical Significance for Trend Data

The Joinpoint Regression Program was used to calculate the average annual percent of change per year, a summary measure of trend over a specified time-period. Joinpoint statistical software also indicates where changes occurred and whether those changes were statistically significant. We tested trends for selected intents and causes overall and by age group and sex. More information about Joinpoint can be found at:

http://surveillance.cancer.gov/joinpoint/

## 5) Acknowledgements

We would like to thank the staff of the MA Registry of Vital Records and Statistics and the MA Division of Health Care Finance and Policy for use of their data sets. We further owe an enormous debt of gratitude to all those at the local level including hospital nurses, physicians, trauma registrars, and other health care professionals, town officials, medical coders, medical examiners, data entry clerks, information technology staff, and so many others who routinely contribute to the collection, coding, cleaning, and submission of data to these and other data systems.

### 6) Resources

To obtain a hard copy of this report, or to request custom data reports from the Injury Surveillance Program (ISP) please Call:

617-624-5648 or 617-624-5665,

Email:

MDPH-ISP@state.ma.us,

or Write to us at:

Massachusetts Department of Public Health

Bureau of Health Information, Statistics, Research, and Evaluation

Injury Surveillance Program

250 Washington Street, 6th Floor

Boston, MA 02108

Selected injury data are also available from the Department's free query system, MassCHIP.

For more information about downloading MassCHIP, visit their website at:

http://masschip.state.ma.us/

Additional Department publications and materials can be accessed on-line at:

http://www.state.ma.us/dph/pubstats.htm

For information on how to prevent injuries, contact the Injury Prevention and Control Program at 617-624-5544, or on-line at: <a href="http://www.mass.gov/dph/fch/injury">http://www.mass.gov/dph/fch/injury</a>

## Injury Classifications

Injuries are classified according to specific codes in the International Classification of Diseases (ICD) Manual. These codes provide information on the "intent" of the injury (e.g., assault-related, intentionally self-inflicted, unintentional), "cause" of the injury, (e.g., fall or motor vehicle crash) and the "nature and anatomic location" of the injury (e.g., multiple fractures involving skull or face, dislocation of hip).

## Intent of Injury<sup>1</sup>

- Unintentional ("Accidental")
- Suicide/Self-inflicted
- Homicide/Assault-related
- Other/Legal
- Undetermined Intent
- Adverse Effects

## **External Cause of Injury**

#### (Examples)

- Fall
- Firearm
- Poisoning/Drug overdose
- Motor vehicle
- Fire/burn
- Drowning
- Cut/pierce
- Machinery
- · Struck by or against an object
- Suffocation/hanging

## **Nature and Anatomical Location of Injury**

### (Examples)

- Fracture of skull
- Open wound to the chest
- Sprain to ankle
- Dislocation to shoulder
- Internal injury to abdomen
- Burn to upper back
- Crushing injury of forearm
- · Foreign body in trachea

While suicide refers to *completed* suicides, nonfatal self-inflicted injuries include suicide attempts, as well as other self-injurious behavior like cutting or burning oneself. Using existing ICD codes, we are unable to distinguish between injuries that are actual suicide attempts and those that are not. We therefore use the broader term "self-inflicted injury" to describe these cases.

Homicide is defined as any death purposefully inflicted by one person against one or more other persons. This category excludes deaths resulting from legal intervention such as police actions. Assault-related injuries are purposefully inflicted by one person against one or more other persons but do not result in death. Legal intervention (e.g., police actions) are excluded from this category.

Other/Legal intent includes injuries sustained from operations related to war and legal interventions such as police actions.

Undetermined intent includes injuries for which there is not enough information to make a determination of intent.

Adverse effects from drugs and medical procedures also fall within the scope of injury and are presented in totals and all overview tables.

<sup>&</sup>lt;sup>1</sup> Unintentional injuries refer to those for which there was no intent to injure or harm oneself or another person. Unintentional intent is sometimes referred to as "accidental". However, we typically do not use this term since injuries are not "random" or chance events; they are *predictable and preventable.* 

## Data Highlights: 2008

- In 2008, an average of 8 residents died every day from injuries.
- <u>Injuries were the third leading cause of death overall, and the leading cause of death among Massachusetts residents ages 1 through 44 when combining all intents (e.g., unintentional, homicide, suicide, etc.)</u>
- Among Massachusetts residents ages 15-24, unintentional injuries were the leading intent of injury death, homicide was the second leading intent and suicide the third.
- There were 2,820 injury deaths to Massachusetts residents and more than three-quarters of a million (N=781,531) nonfatal injuries treated at acute care hospitals (includes hospital discharges, observation stays, emergency department visits).
- The statewide age-adjusted injury rate (fatal and nonfatal injuries combined) was 12,100.5 per 100,000 residents
- Males had nearly twice the injury fatality rate than females (age-adjusted rate of 59.8 per 100,000 and 22.7 per 100,000 respectively)
- The leading cause of injury death was poisoning which includes drug overdoses (N=867). 68.5% of these were associated with opioids which includes heroin, oxycodone, fentanyl, morphine, etc.
- The leading cause of nonfatal injury-related hospital stays (N=30,584) and emergency department visits (N=186,148) was fall.
- The leading causes of injury differ by intent of injury and by fatal and nonfatal status.
- Poisoning/overdose was the leading cause of unintentional death, while suffocation/hanging was the leading cause of suicide, and firearm was
  the leading cause of homicide.
- Fall was the leading cause of nonfatal unintentional injuries.
- Poisoning/overdose was the leading cause of nonfatal self-inflicted injuries.
- Injuries resulting from being struck by or against an object was the leading cause of nonfatal assault-related injuries
- Charges for injury-related hospital discharges in 2008 exceeded \$1.6 billion.
- Unintentional injuries accounted for 75% of these charges (\$1.2 billion).
- Pedestrian injuries resulting from a motor vehicle had the highest average charges among unintentional injuries (\$55,758 per discharge).
- Fall injuries had the highest average charges among self-inflicted injuries (\$66,970 per discharge).
- Intentionally hit by motor vehicle had the highest average charges among assault-related injuries (\$81,434 per discharge),
   followed by firearm-related injuries (\$52,154 per discharge).
- Total hospital charges in 2008 for all injury-related cases treated in acute care hospitals, including hospital discharges, emergency department visits and observation stays, exceeded \$2.6 billion (data not shown).
- Length of stay (LOS) for nonfatal injury-related hospital discharges differ by intent and cause.
- The longest average length of stay for unintentional injuries was for suffocation-related injuries (9.6 days) and fire/flame injuries (7.7 days).
- The longest average length of stay for self-inflicted injuries was for firearm-related injuries (15.8 days).
- The longest average length of stay for assault-related injuries was also for firearm-related injuries (6.8 days).

## Data Highlights: 2008 (continued)

- · Injury rates varied by geographical area.
- Counties with the highest age-adjusted overall injury rate were:
  - Dukes (21,762.6 per 100,000)
  - Nantucket (21,520.8 per 100,000)
  - Berkshire (19,914.4 per 100,000)
  - Barnstable (15,406.9 per 100,000)

#### Community Health Network Areas with the highest age-adjusted overall injury rate were:

- The Community Health Network of Berkshire (19,356.3 per 100,000)
- Partners for Healthier Communities Fall River Region (18,220.9 per 100,000)
- Cape Cod and Islands Community Health Network (15,654.2 per 100,000)
- Greater New Bedford Health and Human Services Coalition (15,318.5 per 100,000)

## Statistically Significant Increases 1 in Injury Rates:

#### Traumatic Brain Injury (TBI)

- Traumatic brain injury (TBI) death rates increased an average of 6.1% per year between 2000 and 2008.
- Nonfatal rates of TBI hospital stays increased an average of 3.3% (per year) between 2000 and 2008.
- Nonfatal rates of TBI emergency department discharges increased an average of 7.5% per year between 2002 and 2008.

#### Fall-related Injury

- The rate of unintentional fall-related deaths increased an average of 11.7% per year between 2000 and 2008
- While this increase was due in part to improved identification of a fall as the underlying cause of death, there was a statistically significant increase in fall deaths from 2000 to 2005 (7.2% per year) and 2005 to 2008 (21.1% per year).

#### Poisoning/Overdose

- The rate of unintentional and undetermined fatal poisoning overdoses increased an average of 5.7% per year between 2000 and 2008.
- Nonfatal rates of poisoning-related hospital stays increased an average of 4.2% per year between 2000 and 2008.
- Nonfatal rates of poisoning-related emergency department discharges increased an average of 2.8% per year between 2002 and 2008.

#### Suicide and Self-inflicted Injury

- Overall suicide rates increased an average of 2.5% per year between 2000 and 2008.
- Among persons ages 45-64, suicide rates increased by an average of 4.2% per year between 2000 and 2008.
- Nonfatal self-inflicted injury-related hospital stays increased by an average of 4% per year between 2000 and 2008 for this age group
  and emergency department discharges increased by an average of 3.3% per year between 2002 and 2008.

#### Assault-related Injury

- Overall rates of nonfatal assault-related injury hospital stays increased an average of 4.3% per year between 2000 and 2008.
- Nonfatal rates of assault-related hospital stays also increased for age groups: 15-19 (4% per year), 25-44 (4.7% per year), and 45-64 (6.7% per year).

Data Highlights: 2008 (continued)

# Statistically Significant Decreases <sup>1</sup> in Injury Rates:

## Motor Vehicle Traffic-related Injury

- The rate of unintentional motor vehicle traffic-related injury deaths declined an average of 4.5% (per year) between 2000 and 2008
- Nonfatal rates of MVT emergency department discharges declined an average of 7.2% (per year) between 2002 and 2008.

#### 1. Statistical Significance

The Joinpoint Regression Program was used to calculate the average annual percent of change per year, a summary measure of trend over a specified time-period. Joinpoint statistical software also indicates where changes occurred and whether those changes were statistically significant. We tested overall injury rates for selected causes, and selected causes by age group and sex.

Overview: 2008

Table 1. Leading Causes of Death by Age Group, Massachusetts Residents, 2008<sup>1</sup>

Book				Age Gr	roups (numbe	er of deaths)			
Rank	<1 year	1-14 years	15-24 years	25-44 years	45-64 years	65-74 years	75-84 years	85+ years	All Ages
1	Short gestation and LBW (95)	Cancer (28)	Unintentional Injuries (180)	Unintentional Injuries (482)	Cancer (3092)	Cancer (2933)	Cancer (4119)	Heart Disease (5946)	Cancer (12996)
2	Congenital malformations (58)	Unintentional Injuries (24)	Homicide (63)	Cancer (289)	Heart Disease (1606)	Heart Disease (1485)	Heart Disease (3531)	Cancer (2508)	Heart Disease (12840)
3	Pregnancy Complications (28)	Congenital Malformation (11)	Suicide (44)	Heart Disease (244)	Unintentional Injuries (556)	Chronic Lower Respiratory Disease (497)	Chronic Lower Respiratory Disease (967)	Stroke (1298)	TOTAL INJURIES ALL INTENTS (2820)
4	SIDS (24)	Influenza & Pneumonia (5)	Cancer (24)	Suicide (175)	Chronic liver disease (299)	Stroke (253)	Stroke (824)	Alzheimer's Disease (1228)	Stroke (2636)
5	Complications of placenta (21)	III-defined conditions (5)	Heart Disease (18)	Homicide (73)	Chronic Lower Respiratory Disease (238)	Diabetes (207)	Alzheimer's Disease (492)	Influenza & Pneumonia (908)	Chronic Lower Respiratory Disease (2565)
6	Intrauterine Hypoxia (10)	Heart Disease (4)	III-defined conditions (15)	III-defined conditions (67)	Stroke (224)	Nephritis (187)	Nephritis (453)	Chronic Lower Respiratory Disease (851)	Alzheimer's Disease (1829)
7	Respiratory distress (10)	Perinatal conditions (4)	Congenital Malformation (11)	Chronic liver disease (63)	Diabetes (219)	Unintentional Injuries (141)	Influenza & Pneumonia ( <i>416</i> )	Nephritis (604)	Influenza & Pneumonia (1599)
8	Circulatory System (8)	Suicide (3)	Injuries of Undetermined Intent (6)	HIV/AIDS (38)	Suicide (211)	Influenza & Pneumonia (134)	Diabetes (332)	Unintentional Injuries (389)	Nephritis (1375)
9	Neonatal hemorrhage (7)	Stroke (2)	Stroke (5)	Injuries of Undetermined Intent (31)	Septicemia (117)	Septicemia (133)	Septicemia (256)	III-defined conditions (318)	Diabetes (1084)
10	Pulmonary hemorrhage (5)	Homicide (2)	Diabetes (3)	Diabetes (30)	III-defined conditions (113)	Chronic liver disease (111)	Unintentional Injuries (252)	Pneumonitis (299)	Septicemia (782)

<sup>1.</sup> This table is based on data from the report *Massachusetts Deaths, 2008*. Source: Registry of Vital Records and Statistics, MDPH

Table 2. Characteristics of Fatal and Nonfatal Injuries, MA Residents, 2008

		Injury Fatalities	Nonfatal Hospital Discharges	Nonfatal Observation Stays	Nonfatal ED Visits	TOTAL
Injury Totals <sup>1</sup>						
	Number	2,820	59,446	10,028	709,237	781,531
	Crude rate	43.4	914.8	154.3	10,914.8	12,027.3
	Age-adjusted rate	40.3	839.6	147.4	11,073.2	12,100.5
Sex						
Female	Number	922	31,102	4,940	321,140	358,104
	Crude rate	27.6	929.9	147.7	9,601.2	10,706.3
	Age-adjusted rate	22.7	757.9	131.6	9,692.3	10,604.5
Male	Number	1,898	28,344	5,088	388,079	423,409
	Crude rate	60.2	898.9	161.4	12,307.6	13,428.0
	Age-adjusted rate	59.8	912.7	161.2	12,427.8	13,561.4
Age Group	Ŭ ,				,	,
	<1 year	5	411	114	4,742	5,272
	1-14 years	32	1,976	795	127,496	130,299
	15-24 years	294	4,373	1,353	143,241	149,261
Number of	25-44 years	766	9,709	2,261	217,147	229,883
Cases	45-64 years	840	14,036	2,608	144,935	162,419
	65-74 years	188	6,583	820	27,619	35,210
	75-84 years	284	11,362	1,088	26,927	39,661
	85+ years	411	10,996	989	17,124	29,520
	<1 year	6.4	523.3	145.2	6,038.0	6,712.8
	1-14 years	2.9	181.5	73.0	11,707.7	11,964.1
	15-24 years	31.8	472.6	146.2	15,479.1	16,129.7
Age-specific	25-44 years	43.0	544.7	126.8	12,182.5	12,897.0
Rates	45-64 years	48.0	801.4	148.9	8,274.9	9,273.1
	65-74 years	43.8	1,534.8	191.2	6,439.1	8,208.9
	75-84 years	95.0	3,799.0	363.8	9,003.4	13,261.2
	85+ years	287.2	7,684.3	691.1	11,966.7	20,629.4

<sup>1.</sup> Rates are per 100,000 residents. Rates based on counts <20 may be unstable and should be interpreted with caution.

Table 3. Number and Rate of Fatal and Nonfatal Injury-related Cases by Sex and Age Group, MA Residents, 2008

	Injury F	atalities		Hospital ays	Nonfatal	ED Visits	Total In	juries
	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
Males <sup>2</sup>	1,898	60.2	33,432	1,060.3	388,079	12,307.6	423,409	13,428.0
<1	4	10.0	253	629.4	2,406	5,986.0	2,663	6,625.4
1-14	22	4.0	1,687	303.4	75,312	13,546.5	77,021	13,853.9
15-24	231	49.9	3,663	791.5	84,971	18,359.5	88,865	19,200.9
25-44	605	68.2	7,433	837.9	123,983	13,975.4	132,021	14,881.5
45-64	599	70.4	9,321	1,095.2	74,682	8,774.8	84,602	9,940.4
65-74	118	60.6	3,375	1,732.0	11,927	6,120.7	15,420	7,913.3
75-84	159	134.0	4,405	3,712.2	9,962	8,395.1	14,526	12,241.3
85+	160	377.0	3,295	7,763.0	4,831	11,381.8	8,286	19,521.7
Females <sup>2</sup>	922	27.6	36,042	1,077.6	321,140	9,601.2	358,104	10,706.3
<1	1	2.6	272	709.4	2,336	6,092.5	2,609	6,804.5
1-14	10	1.9	1,084	203.4	52,182	9,789.5	53,276	9,994.7
15-24	63	13.6	2,063	446.0	58,268	12,596.7	60,394	13,056.3
25-44	161	18.0	4,537	506.8	93,160	10,405.5	97,858	10,930.2
45-64	241	26.8	7,323	813.3	70,246	7,801.5	77,810	8,641.6
65-74	70	29.9	4,028	1,720.9	15,691	6,703.8	19,789	8,454.6
75-84	125	69.3	8,045	4,459.2	16,964	9,402.9	25,134	13,931.4
85+	251	249.4	8,690	8,633.7	12,292	12,212.4	21,233	21,095.5
Total 3	2,820	43.4	69,474	1,069.2	709,237	10,914.8	781,531	12,027.3
<1	5	6.4	525	668.5	4,742	6,038.0	5,272	6,712.8
1-14	32	2.9	2,771	254.5	127,496	11,707.7	130,299	11,965.1
15-24	294	31.8	5,726	618.8	143,241	15,479.1	149,261	16,129.7
25-44	766	43.0	11,970	671.5	217,147	12,182.5	229,883	12,897.0
45-64	840	48.0	16,644	950.3	144,935	8,274.9	162,419	9,273.1
65-74	188	43.8	7,403	1,725.9	27,619	6,439.1	35,210	8,208.9
75-84	284	95.0	12,450	4,162.8	26,927	9,003.4	39,661	13,261.2
85+	411	287.2	11,985	8,375.4	17,124	11,966.7	29,520	20,629.4

<sup>1.</sup> Represents crude rates per 100,000 residents. Rates based on counts <20 may be unstable and should be interpreted with caution. The number and rate of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality.

<sup>2.</sup> Total includes cases for which age was unknown or missing.

<sup>3.</sup> Total includes cases for which age and/or sex was unknown or missing.

Table 4. Number and Rate of Fatal and Nonfatal Injury-related Cases by Intent, MA Residents, 2008

	Injury F	atalities	Nonfatal Sta	-	Nonfatal	<b>EDVisits</b>	Total Injuries		
Intent of Injury	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	
Unintentional	2,029	31.2	53,226	819.1	663,041	10,203.8	718,296	11,054.2	
Suicide and Self-Inflicted	499	7.7	4,481	69.0	6,714	103.3	11,694	180.0	
Homicide and Assault	166	2.6	2,487	38.3	24,935	383.7	27,588	424.6	
Undetermined Intent	85	1.3	934	14.4	5,905	90.9	6,924	106.6	
Other/Legal	7	0.1	52	0.8	621	9.6	680	10.5	
Adverse effects	34	0.5	3,162	48.7	1,138	17.5	4,334	66.7	
Injury code is incomplete or missing <sup>2</sup>	0	0.0	5,132	79.0	6,883	105.9	12,015	184.9	
Total	2,820	43.4	69,474	1069.2	709,237	10,914.8	781,531	12,027.3	

<sup>1.</sup> Represents crude rates per 100,000 residents. Rates based on counts <20 may be unstable and should be interpreted with caution. The number and rate of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality.

<sup>2.</sup> The ICD-9-CM external cause of injury code was either incomplete or missing.

Sources: Deaths - Registry of Vital Records and Statistics, MDPH; Nonfatal Injuries - MA Inpatient Hospital Discharge Database,

MA Outpatient Observation Database, and MA Outpatient Emergency Department Database, Division of Health Care Finance and Policy

Table 5. Number and Rate of Fatal and Nonfatal Injury-related Cases<sup>1</sup> by Intent, Sex and Age Group, MA Residents, 2008

		Uni	ntentional		Sui	cide/S	elf-Inflict	ed	Н	lomicio	le/Assau	Its	Unc	leterm	ined Int	ent
	Injury F	atalities	Nonfatal	Injuries	Injury Fa	atalities	Nonfatal	Injuries	Injury Fa	atalities	Nonfatal	Injuries	Injury Fa	atalities	Nonfatal	Injuries
	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>
Males <sup>3</sup>	1,293	41.0	385,382	12,222.0	387	12.3	4,795	152.1	140	4.4	18,039	572.1	53	1.7	4,156	131.8
<1	4	10.0	2,493	6,202.4	0	0.0	<7	2.5	0	0.0	36	89.6	0	0.0	17	42.3
1-14	18	3.2	75,015	13,493.1	1	0.2	133	23.9	0	0.0	877	157.7	2	0.4	217	39.0
15-24	137	29.6	78,208	16,898.3	30	6.5	1,379	298.0	59	12.7	6,943	1500.2	4	0.9	966	208.7
25-44	382	43.1	117,924	13,292.5	139	15.7	2,071	233.4	62	7.0	7,268	819.3	18	2.0	1,771	199.6
45-64	384	45.1	76,721	9,014.4	165	19.4	1,099	129.1	18	2.1	2,724	320.1	26	3.1	1,010	118.7
65-74	87	44.6	14,231	7,303.1	24	12.3	68	34.9	1	0.5	122	62.6	1	0.5	91	46.7
75-84	135	113.8	13,253	11,168.5	19	16.0	31	26.1	0	0.0	54	45.5	1	8.0	54	45.5
85+	146	344.0	7,532	17,745.3	9	21.2	13	30.6	0	0.0	15	35.3	1	2.4	30	70.7
Females <sup>3</sup>	736	22.0	330,868	9,892.0	112	3.3	6,400	191.3	26	8.0	9,382	280.5	32	1.0	2,683	80.2
<1	1	2.6	2,482	6,473.3	0	0.0	0	0.0	0	0.0	26	67.8	0	0.0	16	41.7
1-14	6	1.1	51,706	9,700.2	2	0.4	355	66.6	2	0.4	482	90.4	0	0.0	160	30.0
15-24	43	9.3	53,094	11,478.2	14	3.0	2,370	512.4	4	0.9	3,337	721.4	2	0.4	673	145.5
25-44	100	11.2	88,582	9,894.1	36	4.0	2,320	259.1	11	1.2	4,038	451.0	13	1.5	1,029	114.9
45-64	172	19.1	72,478	8,049.4	46	5.1	1,239	137.6	9	1.0	1,360	151.0	13	1.4	615	68.3
65-74	54	23.1	18,794	8,029.5	9	3.8	57	24.4	0	0.0	69	29.5	2	0.9	74	31.6
75-84	117	64.9	23,756	13,167.6	3	1.7	36	20.0	0	0.0	49	27.2	0	0.0	74	41.0
85+	243	241.4	19,975	19,845.6	2	2.0	23	22.9	0	0.0	21	20.9	2	2.0	42	41.7
Total⁴	2,029	31.2	716,267	11,022.9	499	7.7	11,195	172.3	166	2.6	27,422	422.0	85	1.3	6,839	105.2
<1	5	6.4	4,975	6,334.7	0	0.0	<7	1.3	0	0.0	62	78.9	0	0.0	33	42.0
1-14	24	2.2	126,723	11,636.7	3	0.3	488	44.8	2	0.2	1,359	124.8	2	0.2	377	34.6
15-24	180	19.5	131,303	14,189.1	44	4.8	3,749	405.1	63	6.8	10,281	1111.0	6	0.6	1,639	177.1
25-44	482	27.0	206,510	11,585.7	175	9.8	4,391	246.3	73	4.1	11,306	634.3	31	1.7	2,800	157.1
45-64	556	31.7	149,206	8,518.7	211	12.0	2,338	133.5	27	1.5	4,084	233.2	39	2.2	1,625	92.8
65-74	141	32.9	33,026	7,699.7	33	7.7	125	29.1	1	0.2	191	44.5	3	0.7	165	38.5
75-84	252	84.3	37,010	12,374.8	22	7.4	67	22.4	0	0.0	103	34.4	1	0.3	128	42.8
85+	389	271.8	27,508	19,223.3	11	7.7	36	25.2	0	0.0	36	25.2	3	2.1	72	50.3

<sup>1.</sup> Nonfatal injuries include nonfatal hospital discharges, observation stays and emergency department (ED) visits.

<sup>2.</sup> Represents crude rates per 100,000 residents. Rates based on counts <20 may be unstable and should be interpreted with caution. The number and rate of nonfatal injuries for counts less than 7 are

<sup>3.</sup> Total includes cases for which age was unknown or missing.

<sup>4.</sup> Total includes cases for which age and/or sex was unknown or missing.

Table 6. Number and Rate of Fatal and Nonfatal Injury-related Cases by Cause, MA Residents, 2008

	Injury Fa	atalities	Nonfatal Disch	-	Non Observat		Nonfatal	ED Visits	Total In	juries
Cause of Injury	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
Cut or pierce	62	1.0	1,563	24.1	258	4.0	70,906	1,091.2	72,789	1,120.2
Drowning, near drowning/submersion	66	1.0	24	0.4	16	0.2	126	1.9	232	3.6
Fall	496	7.6	27,329	420.6	3,255	50.1	186,148	2,864.7	217,228	3,343.0
Fire/Burn:	46	0.7	504	7.8	84	1.3	9,866	151.8	10,500	161.6
Fire/flame	44	0.7	198	3.0	42	0.6	1,604	24.7	1,888	29.1
Burns, hot object/substance	2	0.0	306	4.7	42	0.6	8,312	127.9	8,662	133.3
Firearm	220	3.4	318	4.9	54	0.8	392	6.0	984	15.1
Hanging, strangulation, or suffocation	346	5.3	591	9.1	40	0.6	579	8.9	1,556	23.9
Machinery	5	0.1	199	3.1	34	0.5	3,636	56.0	3,874	59.6
Natural/Environmental:	17	0.3	1,139	17.5	216	3.3	28,554	439.4	29,926	460.5
Dog bites	0	0.0	164	2.5	23	0.4	6,598	101.5	6,785	104.4
Other bites & stings	0	0.0	528	8.1	130	2.0	19,369	298.1	20,027	308.2
All other (e.g., extreme cold)	17	0.3	447	6.9	63	1.0	2,587	39.8	3,114	47.9
Overexertion	0	0.0	1,018	15.7	324	5.0	85,791	1,320.3		1,340.9
Poisoning	867	13.3	6,324	97.3	1,001	15.4	13,907	214.0	22,099	340.1
Struck by/against	8	0.1	1,846	28.4	532	8.2	115,392	1,775.8	117,778	1,812.5
Transport Injuries <sup>2</sup>	402	6.2	4,776	73.5	1,002	15.4	80,950	1,245.8		1,340.9
Motor vehicle <sup>3</sup>	338	5.2	3,743	57.6	778	12.0	68,082	1,047.7	72,941	1,122.5
Injury to occupant	33	0.5	2,375	36.5	525	8.1	56,658	871.9	59,591	917.1
Injury to motorcyclist	46	0.7	515	7.9	80	1.2	2,381	36.6	3,022	46.5
Injury to pedal cyclist	4	0.1	108	1.7	34	0.5	1,087	16.7	1,233	19.0
Injury to pedestrian	70	1.1	558	8.6	80	1.2	3,379	52.0	4,087	62.9
Injury to other person	0	0.0	25	0.4	7	0.1	216	3.3	248	3.8
Injury to unspecified person	181	2.8	139	2.1	48	0.7	4,337	66.7	4,705	72.4
Pedal cyclist, non-traffic	10	0.2	416	6.4	97	1.5	8,021	123.4	8,544	131.5
Pedestrian, non-traffic	10	0.2	54	0.8	12	0.2	400	6.2	476	7.3
Other land transport	38	0.6	0	0.0	0	0.0	0	0.0	38	0.6
Other transport	6	0.1	563	8.7	115	1.8	4,447	68.4	5,131	79.0

<sup>1.</sup> Represents crude rates per 100,000 residents. Rates based on counts <20 may be unstable and should be interpreted with caution.

The number and rate of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality.

<sup>2. &</sup>quot;Transport Injuries" includes motor vehicle injuries and non-MV related injuries such as a bicyclist injured off-road (not hit by MV), ATV injuries, person hit by train on purpose.

<sup>3.</sup> Overall totals for the "Motor vehicle" category include injuries that result from assault-related, self-inflicted, and undetermined intent; these cases are not captured within the MV subcategories.

Sources: Deaths - Registry of Vital Records and Statistics, MDPH; Nonfatal Injuries - MA Inpatient Hospital Discharge Database,

MA Outpatient Observation Database, and MA Outpatient Emergency Department Database, Division of Health Care Finance and Policy

	Injury Fa	atalities	Nonfatal Disch	•	Non Observati		Nonfatal	ED Visits	Total In	juries
Cause of Injury	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
Other specified & classifiable:	17	0.3	2,724	41.9	348	5.4	35,932	553.0	39,021	600.5
Human bites	0	0.0	89	1.4	11	0.2	1,763	27.1	1,863	28.7
Non-powder gun (bb, pellet)	0	0.0	18	0.3	<7	-	434	6.7	457	7.0
Other specified & classifiable	17	0.3	2,617	40.3	332	5.1	33,735	519.2	36,701	564.8
Other specified, not classifiable	40	0.6	1,439	22.1	193	3.0	15,339	236.1	17,011	261.8
Unspecified	194	3.0	3,538	54.4	483	7.4	53,648	825.6	57,863	890.5
Adverse effects	34	0.5	3,059	47.1	103	1.6	1,138	17.5	4,334	66.7
Cause cannot be determined	0.0		3,055	47.0	2,085	32.1	6,883	105.9	12,023	185.0
Total	2,820	43.4	59,446	914.8	10,028	154.3	709,237	10,914.8	781,531	12,027.3

<sup>1.</sup> Represents crude rates per 100,000 residents. Rates based on counts <20 may be unstable and should be interpreted with caution.

The number and rate of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality.

<sup>2. &</sup>quot;Transport Injuries" includes motor vehicle injuries and non-MV related injuries such as a bicyclist injured off-road (not hit by MV), ATV injuries, person hit by train on purpose.

<sup>3.</sup> Overall totals for the "Motor vehicle" category include injuries that result from assault-related, self-inflicted, and undetermined intent; these cases are not captured within the MV subcategories.

Table 7. Number and Rate of Leading Causes of Fatal and Nonfatal Injury-related Cases by Age Group, MA Residents, 2008

Age	Injury Fata	alities		Injury-related Hosp	ital Discha	rges	Injury-related Obser	rvation Stay	/S	Injury-rela	ted ED Vi	sits
Age	Cause	Number		Cause	Number		Cause	Number	Rate <sup>1</sup>	Cause	Number	Rate <sup>1</sup>
	Suffocation	2		Fall	132	168.1	Fall	60	76.4	Fall	2,546	3241.8
<u>_</u>	Fall	1		Suffocation	16	20.4	Suffocation	9	11.5	Struck by	474	603.5
year	Fire & burn	1		Poisoning	15	19.1	Poisoning	7	8.9	Fire & burn	178	226.6
~	MV-occupant	1		Struck by; Natural/Envir.	12 (each)	15.3	Fire & burn	<7		Natural/Envir.	176	224.1
V	Other/unknown	0		Other/unknown	236	300.5	Other/unknown	35	44.6	Other/unknown	1,368	1741.9
	TOTAL <sup>2</sup>	5	6.4	TOTAL <sup>2</sup>	411		TOTAL <sup>2</sup>	114		TOTAL <sup>2</sup>	4,742	6038.0
Age	Injury Fata	alities		Injury-related Hosp	ital Discha	rges	Injury-related Obser	rvation Stay	/S	Injury-rela	ted ED Vi	sits
Age	Cause	Number	Rate <sup>1</sup>	Cause	Number		Cause	Number		Cause	Number	Rate <sup>1</sup>
	Drowning	3		Fall	213	69.8	Fall	77	25.2	Fall	16,149	5294.2
S	MV-pedestrian	3		Poisoning	100	32.8	Poisoning	59	19.3	Struck by	6,599	2163.4
years	Suffocation	3		Natural/Envir.	58	19.0	Natural/Envir.	21	6.9	Natural/Envir.	2,516	824.8
4-	Fire & burn	2		Struck by; Motor vehicle	32 (each)	10.5	Struck by	16	5.2	Overexertion	2,178	714.0
<del></del>	Other/unknown	2				Other/unknown	111		Other/unknown	11,704	3837.0	
	TOTAL <sup>2</sup>	13	4.3	TOTAL <sup>2</sup>	641		TOTAL <sup>2</sup>	284	93.1	TOTAL <sup>2</sup>	39,146	12833.4
Age	Injury Fata	alities		Injury-related Hosp	ital Discha		Injury-related Obser	rvation Stay		Injury-rela	ted ED Vi	
7.90	Cause	Number		Cause	Number		Cause	Number		Cause	Number	Rate <sup>1</sup>
	Pedestrian, other	2		Fall	256	66.6		82	21.3		12,338	3209.3
ars	Suffocation	2		Motor vehicle	56		Struck by	15		Struck by	8,151	2120.2
years	MV-pedestrian; and	1 (each)		Natural/Envir.	47		Motor vehicle	13		Cut / pierce	2,767	719.7
6	Fire; Poisoning	(00011)		Struck by	43	11.2	Poisoning; Natural/Envir.	10 (each)	2.6	Natural/Envir.	2,347	610.5
5								, ,				
	Other/unknown	1		Other/unknown	174	45.3	Other/unknown	90	23.4	Other/unknown	9,900	2575.1
	TOTAL <sup>2</sup>	1 8		TOTAL <sup>2</sup>	576	45.3 149.8	Other/unknown TOTAL <sup>2</sup>	90	23.4 57.2	Other/unknown TOTAL <sup>2</sup>	9,900 35,503	9234.9
Age			2.1	TOTAL <sup>2</sup> Injury-related Hosp	576	45.3 149.8 rges	Other/unknown TOTAL <sup>2</sup> Injury-related Obse	90	23.4 57.2 <b>/s</b>	Other/unknown TOTAL <sup>2</sup> Injury-rela	9,900 35,503	9234.9 sits
Age	TOTAL <sup>2</sup> Injury Fata Cause	alities Number	2.1 Rate <sup>1</sup>	TOTAL <sup>2</sup> Injury-related Hosp Cause	576 ital Discha Number	45.3 149.8 rges Rate <sup>1</sup>	Other/unknown TOTAL <sup>2</sup> Injury-related Obser Cause	90 220 rvation Stay Number	23.4 57.2 /s	Other/unknown TOTAL <sup>2</sup> Injury-rela Cause	9,900 35,503 ted ED Vi	9234.9 sits Rate <sup>1</sup>
	TOTAL <sup>2</sup> Injury Fata Cause Suffocation	Alities Number 5	2.1 Rate <sup>1</sup>	TOTAL <sup>2</sup> Injury-related Hosp Cause Fall	576 ital Discha Number 207	45.3 149.8 <b>rges</b> Rate <sup>1</sup> 51.8	Other/unknown TOTAL <sup>2</sup> Injury-related Obset Cause Fall	90 220 rvation Stay Number 86	23.4 57.2 /s Rate <sup>1</sup> 21.5	Other/unknown TOTAL <sup>2</sup> Injury-rela Cause Struck by	9,900 35,503 ted ED Vis Number 16,583	9234.9 sits Rate <sup>1</sup> 4150.8
	TOTAL <sup>2</sup> Injury Fata Cause Suffocation Transport, other	alities Number	2.1 Rate <sup>1</sup> 1.3	TOTAL <sup>2</sup> Injury-related Hosp Cause Fall Struck by	576 ital Discha Number 207 109	45.3 149.8 rges Rate <sup>1</sup> 51.8 27.3	Other/unknown TOTAL <sup>2</sup> Injury-related Obser Cause Fall Struck by	90 220 rvation Stay Number 86 41	23.4 57.2 /s Rate <sup>1</sup> 21.5 10.3	Other/unknown TOTAL <sup>2</sup> Injury-rela Cause Struck by Fall	9,900 35,503 <b>ted ED Vi</b> <b>Number</b> 16,583 13,707	9234.9 sits Rate <sup>1</sup> 4150.8 3430.9
years	Injury Fata Cause Suffocation Transport, other Drowning; Fire; and	Number 5	2.1 Rate <sup>1</sup> 1.3	TOTAL <sup>2</sup> Injury-related Hosp Cause Fall Struck by Motor vehicle	576 ital Discha Number 207 109 82	45.3 149.8 rges Rate <sup>1</sup> 51.8 27.3 20.5	Other/unknown TOTAL <sup>2</sup> Injury-related Obset Cause Fall Struck by Motor vehicle	90 220 rvation Stay Number 86 41 21	23.4 57.2 /s Rate <sup>1</sup> 21.5 10.3 5.3	Other/unknown TOTAL <sup>2</sup> Injury-rela Cause Struck by Fall Overexertion	9,900 35,503 <b>ted ED Vi</b> <b>Number</b> 16,583 13,707 6,531	9234.9 sits Rate <sup>1</sup> 4150.8 3430.9 1634.7
- 14 years	Injury Fata Cause Suffocation Transport, other Drowning; Fire; and MV-unspecified	Alities Number 5	2.1  Rate <sup>1</sup> 1.3	TOTAL <sup>2</sup> Injury-related Hosp Cause Fall Struck by Motor vehicle Poisoning	576 ital Discha Number 207 109 82 57	45.3 149.8 rges Rate <sup>1</sup> 51.8 27.3 20.5 14.3	Other/unknown TOTAL <sup>2</sup> Injury-related Obser Cause Fall Struck by Motor vehicle Pedal cycle, other	90 220 rvation Stay Number 86 41 21	23.4 57.2 /s Rate <sup>1</sup> 21.5 10.3 5.3	Other/unknown TOTAL <sup>2</sup> Injury-rela Cause Struck by Fall Overexertion Cut / pierce	9,900 35,503 ted ED Vi Number 16,583 13,707 6,531 3,656	9234.9 sits Rate <sup>1</sup> 4150.8 3430.9 1634.7 915.1
14 years	Injury Fata Cause Suffocation Transport, other Drowning; Fire; and	Number 5	2.1  Rate <sup>1</sup> 1.3	TOTAL <sup>2</sup> Injury-related Hosp Cause Fall Struck by Motor vehicle	576 ital Discha Number 207 109 82	45.3 149.8 rges Rate <sup>1</sup> 51.8 27.3 20.5 14.3 76.1	Other/unknown TOTAL <sup>2</sup> Injury-related Obset Cause Fall Struck by Motor vehicle	90 220 rvation Stay Number 86 41 21	23.4 57.2 /s Rate <sup>1</sup> 21.5 10.3 5.3 5.3 30.5	Other/unknown TOTAL <sup>2</sup> Injury-rela Cause Struck by Fall Overexertion	9,900 35,503 <b>ted ED Vi</b> <b>Number</b> 16,583 13,707 6,531	9234.9 sits Rate <sup>1</sup> 4150.8 3430.9 1634.7

<sup>1.</sup> Represents crude rates per 100,000 residents. Rates based on counts <20 may be unstable and should be interpreted with caution. The number and rate of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed for this table.

Injuries to Massachusetts Residents, 2008.

<sup>2.</sup> Total includes cases for which cause was unknown or missing.

Sources: Deaths - Registry of Vital Records and Statistics, MDPH; Nonfatal Injuries - MA Inpatient Hospital Discharge Database,

Table 7. Number and Rate of Leading Causes of Fatal and Nonfatal Injury-related Cases by Age Group, MA Residents, 2008 (continued)

Age	Injury Fata	alities		Injury-related Hosp	tal Discha	rges	Injury-related Obse	rvation Sta	ys	Injury-rela	ted ED Vi	sits
Age	Cause	Number	Rate <sup>1</sup>	Cause	Number	Rate <sup>1</sup>	Cause	Number	Rate <sup>1</sup>	Cause	Number	Rate <sup>1</sup>
10	Motor vehicle	38	8.3	Poisoning	433	94.0	Motor vehicle	113	24.5	Struck by	19,802	4301.1
years	Firearm	27	5.9	Motor vehicle	362	78.6	Poisoning	107	23.2	Fall	11,175	2427.2
	Suffocation	14	3.0	Fall	286	62.1	Struck by	102	22.2	Overexertion	8,959	1945.9
. 19	Poisoning	9	2.0	Struck by	214	46.5	Fall	88	19.1	Motor vehicle	8,797	1910.7
15.	Other/unknown	20	4.3	Other/unknown	762	165.5	Other/unknown	262	56.9	Other/unknown	22,742	4939.6
·	TOTAL <sup>2</sup>	108	23.5	TOTAL <sup>2</sup>	2,057	446.8	TOTAL <sup>2</sup>	672	146.0	TOTAL <sup>2</sup>	71,475	15524.6
Age	Injury Fata	lities		Injury-related Hosp	tal Discha	rges	Injury-related Obse	rvation Sta	ys	Injury-rela	ted ED Vi	sits
Age	Cause	Number	Rate <sup>1</sup>	Cause	Number	Rate <sup>1</sup>	Cause	Number	Rate <sup>1</sup>	Cause	Number	Rate <sup>1</sup>
10	Poisoning	52	11.2	Poisoning	494	106.2	Motor vehicle	127	27.3	Struck by	12,709	2733.2
years	Motor vehicle	49	10.5	Motor vehicle	428	92.0	Poisoning	113	24.3	Motor vehicle	11,260	2421.6
	Firearm	33	7.1	Fall	270	58.1	Fall	107	23.0	Fall	10,636	2287.4
. 24	Suffocation	15	3.2	Cut/pierce	229	49.2	Struck by	62	13.3	Overexertion	9,320	2004.4
20 .	Other/unknown	37	8.0	Other/unknown	895	192.5	Other/unknown	272	58.5	Other/unknown	27,841	5987.5
	TOTAL <sup>2</sup>	186	40.0	TOTAL <sup>2</sup>	2,316	498.1	TOTAL <sup>2</sup>	681	146.5	TOTAL <sup>2</sup>	71,766	15434.1
Age	Injury Fata	alities		Injury-related Hosp	ital Discha	rges	Injury-related Obse	rvation Sta	ys	Injury-rela	ted ED Vi	sits
Age	Cause	Number	Rate <sup>1</sup>	Cause	Number	Rate <sup>1</sup>	Cause	Number	Rate <sup>1</sup>	Cause	Number	Rate <sup>1</sup>
(0	Poisoning	385	21.6	Poisoning	2,318	130.0	Fall	447	25.1	Fall	39,673	2225.8
ears	Suffocation	103	5.8	Fall	1,788	100.3	Poisoning	350	19.6	Overexertion	34,175	1917.3
>	Firearm	79	4.4	Motor vehicle	1,054	59.1	Motor vehicle	251	14.1	Struck by	30,821	1729.1
- 44	Motor vehicle	71	4.0	Cut/pierce	623		Struck by	151	8.5	Motor vehicle	26,822	1504.8
25 -	Other/unknown	128	7.2	Other/unknown	3926	220.3	Other/unknown	1062	59.6	Other/unknown	85,656	4805.5
	TOTAL <sup>2</sup>	766	43.0	TOTAL <sup>2</sup>	9,709	544.7	TOTAL <sup>2</sup>	2261	126.8	TOTAL <sup>2</sup>	217,147	12182.5

<sup>1.</sup> Represents crude rates per 100,000 residents. Rates based on counts <20 may be unstable and should be interpreted with caution. The number and rate of nonfatal injuries for counts less than 7 are counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed for this table.

2. Total includes cases for which cause was unknown or missing.

Sources: Deaths - Registry of Vital Records and Statistics, MDPH; Nonfatal Injuries - MA Inpatient Hospital Discharge Database,

MA Outpatient Observation Database, and MA Outpatient Emergency Department Database, Division of Health Care Finance and Policy

## (continued)

Λαο	Injury Fata	alities		Injury-related Hosp	tal Discha	rges	Injury-related Obser	rvation Sta	ys	Injury-rela	ted ED Vis	sits
Age	Cause	Number	Rate <sup>1</sup>	Cause	Number	Rate <sup>1</sup>	Cause	Number	Rate <sup>1</sup>	Cause	Number	Rate <sup>1</sup>
10	Poisoning	379	21.6	Fall	4,936	281.8	Fall	806	46.0	Fall	41,213	2353.0
ears	Suffocation	117	6.7	Poisoning	2,072	118.3	Poisoning	253	14.4	Overexertion	18,276	1043.4
<b>&gt;</b>	Motor vehicle	89	5.1	Motor vehicle	1,000	57.1	Motor vehicle	160	9.1	Cut / pierce	16,178	923.7
64	Fall	67	3.8	Struck by	392	22.4	Overexertion	102	5.8	Struck by	15,355	876.7
45 -	Other/unknown	188	10.7	Other/unknown	5636	321.8	Other/unknown	1287	73.5	Other/unknown	53,913	3078.1
,	TOTAL <sup>2</sup>	840	48.0	TOTAL <sup>2</sup>	14,036	801.4	TOTAL <sup>2</sup>	2608	148.9	TOTAL <sup>2</sup>	144,935	8274.9
Age	Injury Fata			Injury-related Hospital Discharges		Injury-related Obser	rvation Sta	ys	Injury-rela	ted ED Vis	sits	
Age	Cause	Number	Rate <sup>1</sup>	Cause	Number	Rate <sup>1</sup>	Cause	Number	Rate <sup>1</sup>	Cause	Number	Rate <sup>1</sup>
10	Fall	66	15.4	Fall	3,570	832.3	Fall	354	82.5	Fall	11,856	2764.1
years	Poisoning	25	5.8	Poisoning	336	78.3	Poisoning	44	10.3	Cut / pierce	2,548	594.0
	Suffocation	24	5.6	Motor vehicle	274	63.9	Motor vehicle	33	7.7	Overexertion	2,201	513.1
74	Motor vehicle	23	5.4	Overexertion	140	32.6	Overexertion	26	6.1	Struck by	2,071	482.8
65 -	Other/unknown	50	11.7	Other/unknown	2263	527.6	Other/unknown	363	84.6	Other/unknown	8,943	2085.0
	TOTAL <sup>2</sup>	188	43.8	TOTAL <sup>2</sup>	6,583	1534.8	TOTAL <sup>2</sup>	820	191.2	TOTAL <sup>2</sup>	27,619	6439.1
Age	Injury Fata	alities		Injury-related Hosp	tal Discha	rges	Injury-related Obser	rvation Sta	ys	Injury-rela	ted ED Vis	sits
Age	Cause	Number	Rate <sup>1</sup>	Cause	Number	Rate <sup>1</sup>	Cause	Number	Rate <sup>1</sup>	Cause	Number	Rate <sup>1</sup>
	Fall	334	75.5	Fall	15,671	3544.1	Fall	1148	259.6	Fall	26,855	6073.4
હ	Suffocation	61	13.8	Poisoning	486	109.9	Motor vehicle	53	12.0	Struck by	2,827	639.3
years	Motor vehicle	58	13.1	Motor vehicle	452	102.2	Poisoning	46	10.4	Cut / pierce	2,199	497.3
5+3	Firearm	17	3.8	Overexertion	284	64.2	Struck by	35	7.9	Overexertion	1,996	451.4
7.	Other/unknown	225	50.9	Other/unknown	5465	1235.9	Other/unknown	795	179.8	Other/unknown	10,174	2300.9
	TOTAL <sup>2</sup>	695	157.2	TOTAL <sup>2</sup>	22,358	5056.4	TOTAL <sup>2</sup>	2077	469.7	TOTAL <sup>2</sup>	44,051	9962.4

<sup>1.</sup> Represents crude rates per 100,000 residents. Rates based on counts <20 may be unstable and should be interpreted with caution. The number and rate of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed for this table.

<sup>2.</sup> Total includes cases for which cause was unknown or missing.

Sources: Deaths - Registry of Vital Records and Statistics, MDPH; Nonfatal Injuries - MA Inpatient Hospital Discharge Database,

MA Outpatient Observation Database, and MA Outpatient Emergency Department Database, Division of Health Care Finance and Policy

Table 8. Number and Rate of Fatal and Nonfatal Injury-related Cases by Sex and Age Group for Selected Causes, MA Residents, 2008

	P	oisonin	g / overdo	se			Fall			Cut/	pierce			Overe	xertion	
	Injury F	atalities	Nonfatal I	njuries	Injury F	atalities	Nonfatal	Injuries	Injury F	atalities	Nonfatal	Injuries	Injury I	Fatalities	Nonfatal	Injuries
	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
Males <sup>2</sup>	604	19.2	10,604	336.3	269	8.5	98,145	3,112.6	54	1.7	47,129	1,494.7	0	0.0	47,246	1,498.4
<1 year	0	0	80	199.0	1		1,400	3,483.1	0	0.0	88	218.9	0		60	149.3
1-14 years	1		1,115	200.6	1		25,026	4,501.5	0	0.0	5,349	962.1	0		5,179	931.6
15-24 years	46	9.9	2,006	433.4	7	1.5	12,348	2,668.0	12	2.6	11,027	2,382.6	0	0.0	10,814	2,336.6
25-44 years	292	32.9	3,965	446.9		2.0	20,571	2,318.8	24	2.7	17,550	1,978.2	0	0.0	20,006	2,255.1
45-64 years	245	28.8	2,726	320.3		5.8	20,294	2,384.5	17	2.0	10,388	1,220.5	0		9,503	1,116.6
65-74 years	13	6.7	354	181.7	43	22.1	5,882	3,018.5	1		1,571	806.2	0	0.0	956	490.6
75-84 years	3		262	220.8	71	59.8	7,430	6,261.4	0	0.0	865	728.9	0	0.0	573	482.9
85+ years	4		96	226.2	79	186.1	5,194	12,237.0	0	0.0	290	683.2	0	0.0	153	360.5
Females <sup>2</sup>	263	7.9	10,628	317.7	227	6.8	118,581	3,545.2	8	0.2	25,598	765.3	0	0.0	39,885	1,192.5
<1 year	0	0.0	65	169.5	0	0.0	1,338	3,489.6	0	0.0	74	193.0	0	0.0	99	258.2
1-14 years	0	0.0	1,089	204.3	0	0.0	18,088	3,393.3	0	0.0	3,160	592.8	0	0.0	5,563	1,043.6
15-24 years	15	3.2	2,503	541.1	0	0.0	10,214	2,208.1	0	0.0	5,232	1,131.1	0	0.0	7,577	1,638.0
25-44 years	93	10.4	3,618	404.1	2		21,335	2,383.0	5	0.6	8,807	983.7	0	0.0	14,482	1,617.6
45-64 years	134	14.9	2,421	268.9		2.0	26,659	2,960.7	3		6,178	686.1	0	0.0	9,167	1,018.1
65-74 years	12	5.1	356	152.1	23	9.8	9,898	4,228.8	0	0.0	,	442.6	0	0.0	1,411	602.8
75-84 years	2		377	209.0	60	33.3	15,704	8,704.5	0	0.0	705	390.8	0	0.0	1,076	596.4
85+ years	7	7.0	199	197.7	124	123.2	15,345	15,245.6	0	0.0	405	402.4	0	0.0	510	506.7
Total <sup>3</sup>	867	13.3	21,232	326.7	496	7.6	216,732	3,335.4	62	1.0	72,727	1,119.2	0	0.0	87,133	1,340.9
<1 year	0	0.0	145	184.6	1		2,738	3,486.3	0	0.0	162	206.3	0	0.0	159	202.5
1-14 years	1		2,204	202.4	1		43,115	3,959.2	0	0.0	8,509	781.4	0	0.0	10,742	986.4
15-24 years	61	6.6	4,509	487.3	7	0.8	22,562	2,438.1	12	1.3	16,259	1,757.0	0	0.0	18,391	1,987.4
25-44 years	385	21.6	7,583	425.4		1.1	41,908	2,351.1	29	1.6	26,357	1,478.7	0	0.0	34,488	1,934.9
45-64 years	379	21.6	5,147	293.9	67	3.8	46,955	2,680.8	20	1.1	16,566	945.8	0	0.0	18,671	1,066.0
65-74 years	25	5.8	710	165.5		15.4	15,780	3,679.0	1		2,607	607.8	0	0.0	2,367	551.8
75-84 years	5	1.7	639	213.7	131	43.8	23,135	7,735.5	0	0.0	1,570	525.0	0		1,649	551.4
85+ years	11	7.7	295	206.2	203	141.9	20,539	14,353.2	0	0.0	695	485.7	0	0.0	664	464.0

<sup>1.</sup> Represents crude rates per 100,000 residents. Rates based on counts <20 may be unstable and should be interpreted with caution. The number and rate of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed for this table.

Sources: Deaths - Registry of Vital Records and Statistics, MDPH; Nonfatal Injuries - MA Inpatient Hospital Discharge Database, MA Outpatient Observation Database, and MA Outpatient Emergency Department Database, Division of Health Care Finance and Policy

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<sup>2.</sup> Total includes cases for which age was unknown or missing.

<sup>3.</sup> Total includes cases for which age and/or sex was unknown or missing.

Table 8. Number and Rate of Fatal and Nonfatal Injury-related Cases by Sex and Age Group for Selected Causes, MA Residents, 2008 (continued)

	N	atural/ei	Natural/environmental				Occupant	4		Pede	strian⁵		Pedal Cyclist <sup>6</sup>			
	Injury F	atalities	Nonfatal I	njuries	Injury F	atalities	Nonfata	l Injuries	Injury F	atalities	Nonfatal	Injuries	Injury F	atalities	Nonfatal	Injuries
	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
Males <sup>2</sup>	10	0.3	14,668		198	6.3	30,989	982.8	46	1.5	2,542	80.6	13	0.4	7,432	114.4
<1 year	0	0.0	78	194.1	1		24	59.7	0	0.0			0		0	0.0
1-14 years	0	0.0	3,627	652.4			1,458	262.3	4		390	70.2	0	0.0	2,742	251.8
15-24 years	0	0.0	1,878	405.8		12.7	8,946	1,932.9	4		574	124.0	1		1,798	194.3
25-44 years	2		3,869	436.1	56	6.3	12,540	1,413.5	6	0.7	764	86.1	4		1,571	88.1
45-64 years	3		3,584	421.1	49	5.8	6,469	760.1	14	1.6		72.1	7	0.8	1,171	66.9
65-74 years	0	0.0	887	455.2	10	5.1	806	413.6		2.6	106	54.4	1		100	23.3
75-84 years	2		568	478.7	11	9.3	562	473.6	10	8.4	73	61.5	0	0.0	44	14.7
85+ years	3		177	417.0	10	23.6	184	433.5	3		20	47.1	0	0.0	<7	
Females <sup>2</sup>	7	0.2	15,241	455.7	62	1.9	36,067	1,078.3	34	1.0	1,941	58.0	1		2,330	69.7
<1 year	0	0.0	112	292.1	0	0.0	26	67.8	0	0.0	1		0	0.0	<7	
1-14 years	0	0.0	3,038	569.9	0	0.0	1,659	311.2	1	-	234	43.9	0	0.0	1032	193.6
15-24 years	0	0.0	2,047	442.5	23	5.0	10,723	2,318.2	3	-	506	109.4	0	0.0	330	71.3
25-44 years	0	0.0	3,785	422.8	7	0.8	13,879	1,550.2	3	-	573	64.0	0	0.0	496	55.4
45-64 years	1		4,073	452.3	13	1.4	7,402	822.1	12	1.3	414	46.0	1		410	45.5
65-74 years	1		1,085	463.6		3.4	1,180	504.1	0	0.0	104	44.4	0	0.0	50	21.4
75-84 years	3		790	437.9		2.8	916	507.7	10	5.5		44.9	0	0.0	9	5.0
85+ years	2		311	309.0	6	6.0	282	280.2	5	5.0	28	27.8	0	0.0	<7	
Total <sup>3</sup>	17	0.3	29,909	460.3	260	4.0	67,058	1,032.0	80	1.2	4,483	69.0	14	0.2	9,763	150.2
<1 year	0	0.0	190	241.9			50	63.7	0	0.0	2	2.5	0	0.0	<7	
1-14 years	0	0.0	6,665	612.0			3,117	286.2	5	0.5	624	57.3	0	0.0	3774	346.6
15-24 years	0	0.0	3,925	424.1	82	8.9	19,669	2,125.5	7	0.8	1,080	116.7	1		2128	230.0
25-44 years	2		7,654	429.4		3.5	26,419	1,482.2	9	0.5	1,337	75.0	4		2067	116.0
45-64 years	4		7,657	437.2	62	3.5	13,873	792.1	26	1.5	1,028	58.7	8	0.5	1582	90.3
65-74 years	1		1,972	459.8	-	4.2	1,986	463.0	5	1.2	210	49.0	1		150	35.0
75-84 years	5	1.7	1,358	454.1	16	5.3	1,478	494.2	20	6.7	154	51.5	0	0.0	53	17.7
85+ years	5	3.5	488	341.0	16	11.2	466	325.7	8	5.6	48	33.5	0	0.0	8	5.6

<sup>1.</sup> Represents crude rates per 100,000 residents. Rates based on counts <20 may be unstable and should be interpreted with caution. The number and rate of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed for this table.

Sources: Deaths - Registry of Vital Records and Statistics, MDPH; Nonfatal Injuries - MA Inpatient Hospital Discharge Database, MA Outpatient Observation Database, and MA Outpatient Emergency Department Database, Division of Health Care Finance and Policy

<sup>2.</sup> Total includes cases for which age was unknown or missing.

<sup>3.</sup> Total includes cases for which age and/or sex was unknown or missing.

<sup>4.</sup> Motor vehicle occupants include drivers and passengers of cars, light trucks, and motorcycles.

<sup>5.</sup> Pedestrian injuries include persons struck by a motor vehicle in traffic as well as nontraffic injuries.

<sup>6.</sup> Pedal cyclist injuries include persons struck by a motor vehicle in traffic as well as nontraffic injuries.

## for Selected Causes, MA Residents, 2008 (continued)

	Struck by / against					Fit	re / Burn			Mac	hinery		Suffocation / hanging			
	Injury I	Fatalities	Nonfatal I	njuries	Injury F	atalities	Nonfatal	Injuries	Injury F	atalities	Nonfatal	Injuries	Injury I	Fatalities	Nonfatal	Injuries
	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
Males <sup>2</sup>	5	0.2	77,289	2,451.1	20	0.6	5,434	172.3			3,369	106.8	254	8.1	659	20.9
<1 year	0		259	644.4	0	0.0	98	243.8	0	0.0	<7		2		30	74.6
1-14 years	0		21,147	3,803.8	2		876	157.6	0	0.0	65	11.7	8		128	23.0
15-24 years	0	0.0	23,412	5,058.6	1		1018	220.0	1		511	110.4	20		68	14.7
25-44 years	3		20,862	2,351.6	2		1919	216.3	1		1,269	143.0	78		103	11.6
45-64 years	0	0.0	9,463	1,111.9	10	1.2	1243	146.0	1		1,179	138.5	95		127	14.9
65-74 years	1		1,085	556.8	2		161	82.6	0	0.0	210	107.8	16	8.2	80	41.1
75-84 years	1		757	637.9			89	75.0	0	0.0	105	88.5	17		81	68.3
85+ years	0	0.0	304	716.2	2		30	70.7	1		29	68.3	18	42.4	42	99.0
Females <sup>2</sup>	3		40,477	1,210.2	26	0.8	5,069	151.5	1	-	500	14.9	92	2.8	551	16.5
<1 year	0	0.0	226	589.4	1		89	232.1	0	0.0	0	0.0	0	0.0	38	99.1
1-14 years	1		10,441	1,958.8	2		758	142.2	0	0.0	25	4.7	2		95	17.8
15-24 years	1		9,663	2,089.0	1		995	215.1	0	0.0	117	25.3	9	1.9	32	6.9
25-44 years	0	0.0	10,613	1,185.4	2		1664	185.9	0	0.0	165	18.4	25	2.8	63	7.0
45-64 years	0	0.0	6,376	708.1	11	1.2	1079	119.8	0	0.0	162	18.0	22	2.4	94	10.4
65-74 years	0	0.0	1,109	473.8	2		243	103.8	0	0.0	21	9.0	8	3.4	57	24.4
75-84 years	1		1,262	699.5			145	80.4			8	4.4	6		98	54.3
85+ years	0	0.0	787	781.9	3		96	95.4	0	0.0	<7		20	19.9	74	73.5
Total <sup>3</sup>	8	<b></b>	117,770	1,812.4	46	0.7	10,504	161.7	5	0.1	3,869	59.5	346	5.3	1,210	18.6
<1 year	0	0.0	485	617.6	1		187	238.1	0	0.0	<7	-	2		68	86.6
1-14 years	1		31,589	2,900.8	4		1634	150.0	0	0.0	90	8.3	10	0.9	223	20.5
15-24 years	1	1	33,077	3,574.4	2		2013	217.5	1	-	628	67.9	29	3.1	100	10.8
25-44 years	3	1	31,476	1,765.9	4		3584	201.1	1		1,434	80.5	103	5.8	166	9.3
45-64 years	0	1	15,839	904.3		1.2	2322	132.6	1	-	1,341	76.6	117	6.7	221	12.6
65-74 years	1	1	2,194	511.5			404	94.2	0	0.0	231	53.9	24		137	31.9
75-84 years	2		2,019	675.1		1.7	234	78.2	1	-	113	37.8	23		179	59.9
85+ years	0	0.0	1,091	762.4	5	3.5	126	88.1	1		31	21.7	38	26.6	116	81.1

<sup>1.</sup> Represents crude rates per 100,000 residents. Rates based on counts <20 may be unstable and should be interpreted with caution. The number and rate of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed for this table.

Sources: Deaths - Registry of Vital Records and Statistics, MDPH; Nonfatal Injuries - MA Inpatient Hospital Discharge Database,

MA Outpatient Observation Database, and MA Outpatient Emergency Department Database, Division of Health Care Finance and Policy

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<sup>2.</sup> Total includes cases for which age was unknown or missing.

<sup>3.</sup> Total includes cases for which age and/or sex was unknown or missing.

Table 9. Number and Rate of Fatal and Nonfatal Injury-related Cases by Intent and Selected Causes, MA Residents, 2008

	Injury Fatalities	Nonfatal Hospital Stays	Nonfatal ED Visits		Totals <sup>1</sup>	
Intent and Cause	Number	Number	Number	Total Injury Count	Rate <sup>2</sup>	Case Fatality Ratio (%) <sup>3</sup>
Unintentional	2,029	53,220	663,041	718,290	11054.1	0.3
Fall	479	30,531	186,056	217,066	3340.5	0.2
Struck by or against an object	6	1,524	102,128	103,658	1595.2	0.0
Transport Injuries:	398	5,751	80,926	87,075	1340.0	0.5
Motor vehicle	334	4,494	68,058	72,886	1121.7	0.5
Injury to occupant <sup>⁴</sup>	214	3,087	60,995	64,296	989.5	0.3
Injury to pedestrian	70	638	3,379	4,087	62.9	1.7
Injury to motorcyclist	46	595	2,381	3,022	46.5	1.5
Injury to pedal cyclist	4	142	1,087	1,233	19.0	0.3
Injury to other person	0	32	216	248	3.8	0.0
Pedal cyclist, non-traffic	10	513	8,021	8,544	131.5	0.1
Pedestrian, non-traffic	10	66	400	476	7.3	2.1
Other transport	44	678	4,447	5,169	79.5	0.9
Poisoning/overdose	728	2,973	7,659	11,360	174.8	6.4
Fire/burn total	39	553	9,819	10,411	160.2	0.4
Burns, hot object/substance	2	343	8,283	8,628	132.8	0.0
Fire/flame	37	210	1,536	1,783	27.4	2.1
Hanging, strangulation, or suffocation	116	579	445	1,140	17.5	10.2
Drowning or near drowning/submersion	46	36	123	205	3.2	22.4
Firearm	0	36	143	179	2.8	0.0
Other and unspecified injuries	217	11,237	275,742	287,196	4419.8	0.1
Suicide/Self-inflicted	499	4,480	6,714	11,693	179.9	4.3
Poisoning/overdose	101	3,625	3,286	7,012	107.9	1.4
Hanging, strangulation, or suffocation	223	47	93	363	5.6	61.4
Firearm	115	8	<7	128	2.0	89.8
Other and unspecified injuries	60	800	3,330	4,190	64.5	1.4

<sup>1.</sup> Totals include the number of fatal and nonfatal injury cases among MA residents in 2008.

Case fatality-ratio is presented here as a percent.

Sources: Deaths - Registry of Vital Records and Statistics, MDPH; Nonfatal Injuries - MA Inpatient Hospital Discharge Database,

<sup>2.</sup> Represents crude rates per 100,000 residents. Rates based on counts <20 may be unstable and should be interpreted with caution.

The number and rate of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality.

<sup>3.</sup> The case fatality ratio (number of fatal injury cases among the total number of fatal and nonfatal injuries) is based only on Massachusetts residents who died in Massachusetts and those treated within a MA acute care hospital.

<sup>4.</sup> Occupant includes drivers, passengers, and unspecified persons.

Table 9. Number and Rate of Fatal and Nonfatal Injury-related Cases by Intent and Selected Causes, MA Residents, 2008

(continued)

	Injury Fatalities	Nonfatal Hospital Stays	Nonfatal ED Visits		Totals <sup>1</sup>		
Intent and Cause	Number	Number	Number	Total Injury Count	Rate <sup>2</sup>	Case Fatality Ratio (%) 3	
Homicide/Assault	166	2,486	24,935	27,587	424.5	0.6	
Struck by or against an object	2	841	12,772	13615	209.5	0.0	
Cut or pierce	48	564	1,701	2,313	35.6	2.1	
Firearm	97	300	184	581	8.9	16.7	
Other and unspecified injuries	19	779	10,269	11,067	170.3	0.2	
Injuries of Undetermined Intent	85	934	5,905	6,924	106.6	1.2	
Poisoning/overdose	38	725	2,943	3,706	57.0	1.0	
Fall	2	11	49	62	1.0	3.2	
Drowning or near drowning/submersion	13	<7	<7	15	0.2	86.7	
Hanging, strangulation, or suffocation	3	0	<7	9	0.1	33.3	
Other and unspecified injuries	29	197	2,906	3,132	48.2	0.9	
All other intents/causes	41	3,214	1,760	5,015	77.2	0.8	
Intent and/or cause code is missing or incomplete	0	5,140	6,883	12,023	185.0	0.0	
Total	2,820	69,474	709,237	781,531	12027.3	0.4	

<sup>1.</sup> Totals include the number of fatal and nonfatal injury cases among MA residents in 2008.

The number and rate of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality.

Case fatality-ratio is presented here as a percent.

Sources: Deaths - Registry of Vital Records and Statistics, MDPH; Nonfatal Injuries - MA Inpatient Hospital Discharge Database,

<sup>2.</sup> Represents crude rates per 100,000 residents. Rates based on counts <20 may be unstable and should be interpreted with caution.

<sup>3.</sup> The case fatality ratio (number of fatal injury cases among the total number of fatal and nonfatal injuries) is based only on Massachusetts residents who died in Massachusetts and those treated within a MA acute care hospital.

<sup>4.</sup> Occupant includes drivers, passengers, and unspecified persons.

Table 10. Charges\* for Injury-related Hospital Discharges<sup>1</sup> by Intent and Selected Causes, MA Residents, 2008

INTENT AND CAUSE OF INJURY 2	Number	Average Charge	Total Charges
UNINTENTIONAL			
Fall	28,579	\$23,951	\$684,499,591
Motor Vehicle	3,872		\$178,082,741
Injury to occupant <sup>3</sup>	2,608		\$110,572,367
Injury to pedestrian	597	\$55,758	\$33,287,648
Injury to motorcyclist	529	\$53,639	\$28,374,817
Injury to pedal cyclist	111	\$43,227	\$4,798,143
Injury to other person	27	\$38,880	\$1,049,766
Other Transport	1,052	\$29,671	\$31,214,385
Pedal cyclist, other	422	\$22,864	\$9,648,540
Pedestrian, other	58	\$51,910	\$3,010,763
All Other transport	572	\$32,439	\$18,555,082
Poisoning / overdose	2,584	\$17,441	\$45,067,275
Suffocation / hanging	653	\$45,709	\$29,847,926
Struck by / against	1,206	\$20,572	\$24,809,518
Overexertion	1,031	\$17,952	\$18,508,605
Fire / burn	499	\$37,770	\$18,847,427
Fire/flame	183		\$9,469,247
Hot object / substance burn	316		\$9,378,180
Natural / environmental	1,170	\$14,238	\$16,658,966
Dog bite	165	\$11,208	\$1,849,285
Other bite or sting	531	\$10,030	\$5,325,743
All other	474	\$20,008	\$9,483,938
Cut / pierce	566	\$17,044	\$9,646,793
Machinery	200	\$29,015	\$5,803,074
Firearms	29	\$29,973	\$869,225
Near drowning / submersion	25	\$26,031	\$650,769
Other specified & classifiable	2,646	\$28,763	\$76,107,505
Human bite	38	\$16,630	\$631,922
Non-powder gun	10	\$13,813	\$138,132
Other	2,598	\$28,998	\$75,337,451
Other specified, not classifiable	978		\$21,106,792
Unspecified	3,526	\$23,046	\$81,258,700

\*Charges are presented to provide an economic indicator associated with injuries. All three databases from the Division of Health Care Finance and Policy include charges associated with each visit. These are initial charges issued by the treating hospital and are not necessarily the amount that it costs the hospital to treat the patients, nor is it what is ultimately paid to the hospital by the insurer/payer. Final payment is typically less than initial charges, but such information is not included in the databases. This economic indicator does not take into account costs associated with long-term or rehabilitative care, nor other costs associated with injury and disability, such as lost wages.

<sup>1.</sup> Numbers presented here may not match other counts in this report. Charges are included for patients who died or were transferred to another acute care hospital.

<sup>2.</sup> Causes for which there were less than 7 counts are not included.

<sup>3.</sup> Occupants include drivers, passengers, and unspecified persons (based on previous investigations, the majority of "unspecified" persons should be coded as "occupant"). Section: Overview Source: MA Inpatient Hospital Discharge Database, Division of Health Care Finance and Policy Injury Surveillance Program, MA Department of Public Health

Table 10. Charges\* for Injury-related Hospital Discharges<sup>1</sup> by Intent and Selected Causes, MA Residents, 2008 (continued)

INTENT AND CAUSE OF INJURY 2	Number	Average Charge	Total Charges
SELF-INFLICTED			
Poisoning / overdose	3,482	\$15,509	\$54,001,926
Cut / pierce	532	\$19,278	\$10,256,057
Fall	40	\$66,970	\$2,678,787
Suffocation / hanging	54	\$33,405	\$1,803,849
Firearm	12	\$64,886	\$778,635
Fire / burn	18	\$20,765	\$373,768
Motor Vehicle	13	\$27,022	\$351,284
Other specified, not classifiable	113	\$31,738	\$3,586,364
Unspecified	18	\$11,991	\$215,834
ASSAULT			
Struck by / against	665	\$27,151	\$18,055,368
Cut / pierce	490	\$32,798	\$16,070,833
Firearm	279	\$52,154	\$14,550,878
Motor Vehicle	8	\$81,434	\$651,475
Other specified & classifiable	212	\$19,123	\$4,054,034
Human bite	54	\$12,890	\$696,034
Other	158	\$21,253	\$3,358,000
Other specified, not classifiable	270	\$29,966	\$8,090,946
Unspecified	143	\$25,436	\$3,637,323
UNDETERMINED			
Poisoning / overdose	651	\$17,282	\$11,250,842
Firearm	9	\$89,801	\$808,210
Fall	10	\$87,203	\$872,028
Fire / burn	12	\$17,483	\$209,797
Natural / environmental	9	\$15,106	\$135,953
Cut / pierce	8	\$15,922	\$127,378
Other specified, not classifiable	93	\$23,028	\$2,141,601
Unspecified	44	\$29,270	\$1,287,868

<sup>1.</sup> Numbers presented here may not match other counts in this report. Charges are included for patients who died or were transferred to another acute care hospital.

<sup>2.</sup> Causes for which there were less than 7 counts are not included.

<sup>3.</sup> Occupants include drivers, passengers, and unspecified persons (based on previous investigations, the majority of "unspecified" persons should be coded as "occupant"). Source: MA Inpatient Hospital Discharge Database, Division of Health Care Finance and Policy

Table 10. Charges\* for Injury-related Hospital Discharges<sup>1</sup> by Intent and Selected Causes, MA Residents, 2008 (continued)

INTENT AND CAUSE OF INJURY 2	Number	Average Charge	Total Charges
OTHER / LEGAL			
Struck by / against	10	\$18,189	\$181,886
Firearm	8	\$71,158	\$569,264
Other specified, not classifiable	24	\$21,654	\$519,705
TOTALS BY INTENT OF INJURY			
UNINTENTIONAL	48,616	\$25,567	\$1,242,979,292
SELF-INFLICTED	4,294	\$17,360	\$74,545,693
ASSAULT	2,085	\$31,733	\$66,162,553
UNDETERMINED	839	\$20,147	\$16,903,022
OTHER / LEGAL	47	\$28,528	\$1,340,837
ADVERSE EFFECTS	3,260	\$39,220	\$127,856,688
CAUSE / INTENT NOT PROVIDED	3,330	\$40,266	\$134,085,273
Injuries with no charges listed	15	na	na
TOTAL	62,486	\$26,634	\$1,663,873,358

<sup>1.</sup> Numbers presented here may not match other counts in this report. Charges are included for patients who died or were transferred to another acute care hospital.

<sup>2.</sup> Causes for which there were less than 7 counts are not included.

<sup>3.</sup> Occupants include drivers, passengers, and unspecified persons (based on previous investigations, the majority of "unspecified" persons should be coded as "occupant"). Source: MA Inpatient Hospital Discharge Database, Division of Health Care Finance and Policy

Table 11. Length of Stay (in days) for Nonfatal Injury-related Hospital Discharges by Intent and Selected Causes, MA Residents, 2008

INTENT AND CAUSE OF INJURY1	Number	Average <sup>2</sup>	Median	Minimum	Maximum
UNINTENTIONAL					
Suffocation / hanging	542	9.6	6.0	1.0	105.0
Fire / burn	472	6.9	4.0	1.0	163.0
Fire / flame	171	7.7	4.0	1.0	117.0
Hot object / substance burn	301	6.5	4.0	1.0	163.0
Motor Vehicle	3,720	5.6	3.0	1.0	115.0
Injury to pedestrian	558	6.4	4.0	1.0	74.0
Injury to motorcyclist	515	6.1	3.0	1.0	62.0
Injury to occupant <sup>3</sup>	2,514	5.4	3.0	1.0	115.0
Injury to pedal cyclist	108	4.8	3.0	1.0	39.0
Injury to other person	25	5.7	3.0	1.0	30.0
Fall	27,277	5.0	4.0	1.0	230.0
Other Transport	1,033	4.1	3.0	1.0	69.0
Pedestrian, other	54	7.3	3.5	1.0	30.0
Pedal cyclist, other	416	3.2	2.0	1.0	28.0
All Other transport	563	4.5	3.0	1.0	69.0
Struck by / against	1,184	4.2	3.0	1.0	103.0
Poisoning / overdose	2,497	4.0	3.0	1.0	150.0
Natural / environmental	1,127	3.9	3.0	1.0	122.0
Dog bite	164	2.8	2.0	1.0	12.0
Other bite or sting	528	3.0	2.0	1.0	29.0
All other	435	5.3	3.0	1.0	122.0
Cut / pierce	561	3.9	3.0	1.0	117.0
Overexertion	1,018	3.8	3.0	1.0	40.0
Machinery	199	3.6	2.0	1.0	55.0
Firearm	27	3.4	3.0	1.0	13.0
Near drowning / submersion	21	3.4	3.0	1.0	14.0
Other specified & classifiable	2,513	6.4	4.0	1.0	144.0
Human bite	36	4.8	4.0	1.0	13.0
Non-powder gun	10	2.3	1.0	1.0	10.0
Other	2,467	6.5	4.0	1.0	144.0
Other specified, not classifiable	948	5.5	4.0	1.0	57.0
Unspecified	3,337	6.0	4.0	1.0	194.0

<sup>1.</sup> Causes for which there were <7 counts are not included. Ranked according to major categories with the longest average LOS (length of stay). Subcategories (e.g., hot object, injury to MV occupant) are listed below corresponding major categories and may have a shorter or longer LOS. 2. Occupant includes drivers, passengers, and unspecified persons.

Source: MA Inpatient Hospital Discharge Database, Division of Health Care Finance and Policy

Table 11. Length of Stay (in days) for INTENT AND CAUSE OF INJURY <sup>1</sup>	Nontatai i Number	Average <sup>2</sup>	Median	Minimum	arges by Maximum
SELF-INFLICTED	Number	Average	Wedian	William	Maximum
Firearm	8	15.8	7.5	2.0	73.0
Fall	36	13.6	8.0	1.0	94.0
Suffocation / hanging	46	8.4	4.0	1.0	63.0
Fire / burn	17	7.5	6.0	2.0	19.0
Cut / pierce	518	7.3	5.0	1.0	184.0
Motor Vehicle Traffic	13	5.5	4.0	1.0	16.0
Poisoning/drug overdose	3,231	4.0	3.0	1.0	99.0
Other specified, not classifiable	106	10.8	6.0	1.0	95.0
Unspecified	18	5.4	5.0	1.0	13.0
ASSAULT					
Firearm	268	6.8	4.0	1.0	79.0
Struck by / against	652	4.3	2.0	1.0	74.0
Cut / pierce	477	3.8	3.0	1.0	34.0
Other specified & classifiable	206	5.8	3.0	1.0	61.0
Other specified, not classifiable	269	7.5	4.0	1.0	170.0
Unspecified	138	4.4	3.0	1.0	25.0
UNDETERMINED					
Firearm	8	9.9	5.0	1.0	40.0
Fall	10	9.2	7.5	1.0	25.0
Fire / burn	11	5.8	3.0	1.0	32.0
Poisoning /overdose	594	3.9	2.0	1.0	61.0
Natural / environmental	8	3.9	2.0	1.0	11.0
Other specified, not classifiable	92	5.2	4.0	1.0	19.0
Unspecified	40	8.4	4.0	1.0	72.0
OTHER / LEGAL					
Firearm	7	9.4	7.0	3.0	23.0
Struck by / against	10	6.5	2.0	1.0	35.0
Other specified, not classifiable	24	5.4	4.0	1.0	40.0
TOTALS BY INTENT OF INJURY					
UNINTENTIONAL	46,476	5.1	4.0	1.0	230.0
SELF-INFLICTED	4,004	4.8	3.0	1.0	184.0
ASSAULT	2,033	5.1	3.0	1.0	170.0
OTHER / LEGAL ADVERSE EFFECTS	77.3	6.2	3.5	10	72.0
ADVERSE FEFECTS	3,059	7.7	5.0	1.0 1.0	40.0 173.0
CAUSE / INTENT NOT PROVIDED	3,055	7.4	5.0	1.0	204.0
TOTAL	59,446	5.3	4.0	1.0	230.0

<sup>1.</sup> Causes for which there were <7 counts are not included. Ranked according to major categories with the longest average LOS (length of stay). Subcategories (e.g., hot object, injury to MV occupant) are listed below corresponding major categories and may have a shorter or longer LOS.

Source: MA Inpatient Hospital Discharge Database, Division of Health Care Finance and Policy

<sup>2.</sup> Occupant includes drivers, passengers, and unspecified persons.

## Regional Data: 2008

Table 12. Number and Rate of Fatal and Nonfatal Injuries for Selected Causes by County, MA Residents, 2008

		T	otal Injui	ries		Uninter Motor \ Traf	/ehicle	Unintentional Falls Among Older Adults (Ages 65+)		Undetermined		Homicide/ Assault		Suicide/Self- Inflicted	
	Injury Fatalities	Nonfatal Injuries	Total	Crude Rate <sup>2</sup>	Age- adjusted Rate <sup>3</sup>	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries
Massachusetts <sup>1</sup>	2,820	778,711	781,531	12027.3	12100.5	334	72,552	395	59,452	766	14,300	166	27,422	499	11,195
Barnstable	153	32,488	32,641	14766.4	15406.9	9	2,623	44	3,652	31	464	4	801	33	413
Berkshire	70	24,889	24,959	19289.0	19914.4	7	1,562	8	2,051	11	322	4	751	15	487
Bristol	291	79,248	79,539	14572.3	14717.4	35	7,910	35	5,092	95	1,259	11	2,581	53	1,215
Dukes	7	3,288	3,295	21221.1	21762.6	1	128	1	274	1	33	0	62	2	30
Essex	299	92,678	92,977	12624.9	12790.6	31	8,320	47	7,496	75	1,486	16	2,868	50	1,133
Franklin	31	9,866	9,897	13796.6	14326.2	6	732	2	699	6	169	1	218	5	105
Hampden	199	64,012	64,211	13933.5	14037.7	25	7,610	17	4,210	57	1,578	17	3,067	41	952
Hampshire	50	14,903	14,953	9648.2	10145.6	6	1,174	5	1,238	14	262	0	332	13	245
Middlesex	537	152,764	153,301	10340.9	10412.2	60	12,846	89	13,214	141	2,393	18	4,229	101	1,864
Nantucket	3	2,325	2,328	20757.9	21520.8	0	53	0	123	0	19	0	26	1	12
Norfolk	263	69,471	69,734	10567.2	10697.5	28	5,750	45	6,571	86	1,216	3	1,914	48	832
Plymouth	248	64,100	64,348	13077.1	13340.0	50	6,881	29	4,231	55	1,055	10	2,018	39	731
Suffolk	336	75,899	76,235	10404.9	10191.9	24	9,177	31	4,317	98	2,059	73	5,575	41	1,253
Worcester	333	92,722	93,055	11872.2	11939.9	52	7,783	42	6,284	96	1,982	9	2,978	57	1,922

<sup>1.</sup> Massachusetts total includes cases of unknown town and homeless persons where no specific town was provided.

City and town names can be located by clicking on the county above (excel format only) or referring to "City and Town Listing by County" (Appendix D).

<sup>2.</sup> Represents crude rates per 100,000 residents using 2008 U.S. Census Estimates.

<sup>3.</sup> Age-adjusted rate is adjusted to the 2000 U.S. standard population using 2005 U.S. Census data from MassCHIP.

<sup>4.</sup> Motor vehicle traffic-related injuries include: motor vehicle occupants (i.e., drivers and passengers of cars and light trucks), pedestrians and pedal cyclists injured by a motor vehicle, and motorcyclists.

<sup>5.</sup> Poisonings can include overdoses of prescription medicines, household cleaners, carbon monoxide poisoning, toxic effects of legal or illegal drugs, etc.

Sources: Deaths - Registry of Vital Records and Statistics, MDPH; Nonfatal Injuries - MA Inpatient Hospital Discharge Database,

MA Outpatient Observation Database, and MA Outpatient Emergency Department Database, Division of Health Care Finance and Policy

Table 13. Number and Rate of Fatal and Nonfatal Injuries for Selected Causes by Community Health Network Areas (CHNAs), MA Residents, 2008

		Tot	tal Injuri	es		Motor Vehicle		Unintentional Falls Among Older Adults (Ages 65+)		Undetermined		Homicide/ Assault		Suicide/Self- Inflicted	
	Injury Fatalities	Nonfatal Injuries	Total	Crude Rate <sup>2</sup>	Age- adjusted Rate <sup>3</sup>	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries
Massachusetts <sup>1</sup>	2,820	778,711	781,531	12027.3	12100.5	334	72,552	395	59,452	766	14,300	166	27,422	499	11,195
Community Health Network of Berkshire	70	24,889	24,959	18913.3	19356.3	7	1,562	8	2,051	11	322	4	751	15	-
2. Upper Valley Health Web	37	12,672	12,709	14359.5	14656.7	7	906	3	889	7	205	1	285	5	
3. Partnership for Health in Hampshire County	48	14,554	14,602	9619.2	9917.4	6	1,144	5	1,230	14	253	0	321	12	
4. The Community Health Connection	133	40,389	40,522	13530.3	13592.5			10	,			11	2,215	29	
5. South County Connects	50	16,584	16,634	13961.6	14183.3	10	1,329			11	358	1	355	8	
6. Community Partners for Health	55	17,877	17,932	11171.1	11549.8		1,417	6	,	17		1	330	8	
7. Community Health Coalition of Metrowest	129	39,719	39,848	10495.8	10996.5		2,897	20	,	29		4	865	21	
8. Common Pathways	133	33,441	33,574	11056.1	10967.4	17	2,953	21	2,294	36		3	1,510	22	
9. CHN of North Central Massachusetts	122	30,823	30,945	11839.6	11995.0	20	2,614	8		45		4	858	23	
10. The Greater Lowell CHN	108	31,352	31,460	11528.3	11731.6		,	13		30		6	1,124	27	
11. The Greater Lawrence CHN	74	24,198	24,272	12436.0	12421.8	9	2,472	11	1,594	18		6	935	10	
12. The Greater Haverhill CHN	57	19,005	19,062	12831.4	13177.1	5	1,373	11		12		2	459	11	
13. The North Shore CHN (Beverly/Gloucester)	40	13,862	13,902	12438.1	11795.8	5	814	5		7	230	0	305	14	
14. The North Shore CHN (Salem/Lynn)	128	35,613	35,741	11645.4	12539.8			20				8	1,169	15	
15. Northwest Suburban Health Alliance	75	19,904	19,979	9532.1	10001.6		1,430	14	,	19		3	333	14	
16. North Suburban Health Alliance	125	31,401	31,526	12255.7	12405.9			20		44		4	894	16	
17. The Greater Cambridge/Somerville CHNA	75	24,623	24,698	9017.7	9072.6		1,948	17	2,162	12		3	921	17	
18. West Suburban Health Network	80	22,627	22,707	8970.2	8891.2		, -	21	2,736			0	411	21	
19. Boston Alliance for Community Health	349	79,078	79,427	11161.7	11030.4	25	9,342	35		99	,	73	5,629	46	
20. Blue Hills Community Health Alliance	171	41,461	41,632	11182.1	11378.3		3,745	33	,	56		1	1,350	25	
21. CHN of Chicopee/Holyoke/Ludlow/Westfield	65	22,955	23,020	14257.9	14252.7	5	2,452	7	.,0	19		6	843	12	
22. The Greater Brockton CHN	117	32,089	32,206	13286.1	13241.8			13		30			1,277	18	
23. South Shore CHN	85	23,395	23,480	12437.3	12806.5	19		9		20		0	600	16	
24. The Greater Attleboro-Taunton CHNA	127	32,764	32,891	13004.6	13303.0	20	3,006		,	32			873	30	
25. Partners for Healthier Communities	82	25,320	25,402	17891.6	18220.9	11	2,547	9	,	27	378	3	828	11	
26. Greater New Bedford CHN	122	29,959	30,081	15043.9	15318.5							5	1,090	17	
27. Cape and Islands Health Network	163	38,109	38,272	15175.0	15654.2	10	2,804	45	4,049	32	516	4	889	36	455

<sup>1.</sup> Massachusetts total includes cases of unknown town and homeless persons where no specific town was provided.

<sup>2.</sup> Represents crude rates per 100,000 residents using 2008 U.S. Census Estimates.

<sup>3.</sup> Age-adjusted rate is adjusted to the 2000 U.S. standard population using 2005 U.S. Census data from MassCHIP.

<sup>4.</sup> Motor vehicle traffic-related injuries include: motor vehicle occupants (i.e., drivers and passengers of cars and light trucks), pedestrians and pedal cyclists injured by a motor vehicle, and motorcyclists.

<sup>5.</sup> Poisonings can include overdoses of prescription medicines, household cleaners, carbon monoxide poisoning, toxic effects of legal or illegal drugs, etc.

Table 14. Number and Rate of Fatal and Nonfatal Injuries, Selected Causes by City/Town of Residence

CITY / TOWN OF RESIDENCE		Total In	juries		Unintentional Motor Vehicle Traffic <sup>2</sup>		Unintentional Falls Among Older Adults (Ages 65+)		Unintentional and Undetermined Poisonings <sup>3</sup>		Homicide/ Assault		Suicide/Self-Inflicted	
REGIDENCE	Injury Fatalities	Nonfatal Injuries	Total	Crude Rate <sup>1</sup>	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries
Abington	5	1,791	1,796	10,761.6	0	180	1	83	1	33	1	29	2	
Acton	4	1,688	1,692	8,135.8	2	115	1	131	0	14	0	21	0	33
Acushnet	6	1,069	1,075	10,368.4		127	2	60	1	17	0	37	0	
Adams	4	1,570	1,574	18,975.3		104	0	123	1	22	0	56	1	29
Agawam	9	3,014	3,023	10,761.5	3	315	0	332	1	96	0	71	2	26
Alford	1	35	36	9,183.7	0	<7	0	<7	0	0	V	<7	0	•
Amesbury	6	2,163	2,169	13,078.9		144	2	175	0	36		43		
Amherst	7	1,401	1,408	3,958.9		135	3	174	0	32	0	30		25
Andover	9	2,565	2,574	7,702.4	1	176	3	295	1	30		29	1	20
Aquinnah	0	46	46	12,885.2	0	<7	0	<7	0	0	0	<7	0	
Arlington	14	3,441	3,455	8,428.3	2	226	5	484	2	56	0	76		41
Ashburnham	3	648	651	10,897.2	1	45	0	26	1	<7	0	15		11
Ashby	2	265	267	9,122.0		20	0	15	1	0		10	1	<7
Ashfield	1	154	155	8,507.1	0	15	_	14	0	<7	0	<7	1	<7
Ashland	4	1,636	1,640	10,375.2	1	152	0	107	1	14	0	27	0	
Athol	3	2,296	2,299	19,870.4	1	133	0	162	1	29	0	57	0	•
Attleboro	27	5,787	5,814	13,573.6	2	458	3	451	7	60	0	168	7	118
Auburn	13	1,512	1,525	9,400.8	1	110	3	172	1	29	1	31	3	23
Avon	1	498	499	11,604.7	0	62	0	29	1	15		19	0	• •
Ayer	4	1,212	1,216	16,434.7	1	94	0	119	2	20	0	25	1	28
Barnstable	46	8,123	8,169	17,687.9		715	11	681	9	126	3	258	13	94
Barre	4	589	593	10,918.8		56	0	33	3	12	0	7	0	17
Becket	1	290	291	16,157.7	1	24	0	10	0	<7	0	<7	0	•
Bedford	3	1,403	1,406	10,380.2	0	77	2	131	0	27	0	18		22
Belchertown	2	1,387	1,389	9,759.0		106	0	77	0	22	0	30		19
Bellingham	5	1,674	1,679	10,559.7	0	156	0	85	3	19		25		12
Belmont	10	1,810	1,820	7,814.2	0	99	5	225	0	26	0	31	4	11
Berkley	2	840	842	13,030.0		110	0	24	0	13	0	13	0	. •
Berlin	2	254	256	8,973.0		22	1	27	1	<7	0	<7	0	•
Bernardston	1	283	284	12,735.4	0	21	0	18	0	<7	0	<7	0	<7
Beverly	13	5,215	5,228	13,288.3	0	349	1	488	2	90	0	130	6	
Billerica	13	4,102	4,115	9,834.1	2	319	1	255	3	65	0	109	3	55

<sup>1.</sup> Represents crude rates per 100,000 residents. Population data used to calculate rates are from 2008 U.S. Census Estimates. The number of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality.

<sup>2.</sup> Motor vehicle related injuries include: motor vehicle occupants (i.e., drivers and passengers of cars and light trucks), pedestrians and pedal cyclists injured by a motor vehicle, and motorcyclists.

<sup>3.</sup> Poisonings can include overdoses of prescription medicines, household cleaners, carbon monoxide poisoning, toxic effects of legal or illegal drugs, etc.

Table 14. Number and Rate of Fatal and Nonfatal Injuries, Selected Causes by City/Town of Residence (continued)

CITY / TOWN OF RESIDENCE		Total Ir	njuries		Venicle Traffic		Unintentional Falls Among Older Adults (Ages 65+)		Unintentional and Undetermined Poisonings <sup>3</sup>		Homicide/ Assault		Suicide/Self-Inflicted	
	Injury Fatalities	Nonfatal Injuries	Total	Crude Rate <sup>1</sup>	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries
Blackstone	2	786	788	8,735.2	0	60	1	27	1	12	0	11	0	11
Blandford	0	148	148	11,653.5	0	12	0	7	0	<7	0	<7	0	0
Bolton	1	419	420	9,271.5	0	22	0	25	1	<7	0	<7	0	<7
Boston	280	64,382	64,662	10,617.3	23	7,832	26	3,428	77	1,791	69	4,953	33	1,113
Bourne	11	3,287	3,298	17,007.0	2	269	1	312	2	31	0	61	1	40
Boxborough	2	377	379	7,459.2	0	30	1	22	0	<7	0	7	1	<7
Boxford	2	676	678	8,338.5	0	40	1	36	1	<7	0	<7	0	<7
Boylston	0	336	336	7,879.9	0	24	0	20	0	<7	0	9	0	7
Braintree	14	3,818	3,832	10,857.4	1	310	1	436	4	80	0	137	3	50
Brewster	5	884	889	8,947.3	0	60	2	125	0	10	0	23	1	13
Bridgewater	7	2,374	2,381	9,238.0	2	221	0	120	1	39	1	77	1	58
Brimfield	1	515	516	13,915.9	1	52	0	36	0	11	0	11	0	7
Brockton	60	16,531	16,591	17,838.4	8	2,756	6	712	17	322	6	838	6	180
Brookfield	1	414	415	13,801.1	0	35	0	22	0	7	0	<7	0	<7
Brookline	13	3,179	3,192	5,814.6	1	165	4	410	1	47	0	54	5	39
Buckland	2	20	22	1,106.1	0	<7	1	<7	0	0	0	<7	1	0
Burlington	5	2,210	2,215	8,865.3	0	166	1	260	1	28	0	36	1	23
Cambridge	25	8,200	8,225	7,789.1	4	646	4	657	3	155	2	356	7	115
Canton	9	2,424	2,433	11,035.0	4	193	2	277	2	34	0	44	1	19
Carlisle	0	378	378	7,755.4	0	20	0		0	<7	0	<7	0	<7
Carver	6	1,735	1,741	15,042.3	1	174	0		2	33	0	43	1	19
Charlemont	0	191	191	13,860.7	0	25	0	13	0	<7	0	<7	0	2
Charlton	6	1,455	1,461	11,609.1	0	122	0	81	3	26	0	20	1	31
Chatham	4	592	596	8,894.2	0	50	1	124	1	11	0	13	2	3
Chelmsford	9	2,941	2,950	8,573.3	0	224	1	375	2	37	0	61	5	42
Chelsea	15	3,734	3,749	9,017.0	0	440	2	290	5	91	2	308	1	59
Cheshire	0	524	524	15,811.7	0	24	0	25	0	<7	0	10	0	9
Chester	1	189	190	14,763.0	0	19		<7	0	<7	0	<7	0	<7
Chesterfield	0	98	98	7,608.7	0	<7	0	<7	0	<7	0	<7	0	0
Chicopee	19	7,509	7,528	13,702.0	2	862	3	526	6	212	3	253	1	128
Chilmark	0	138	138	14,212.2	0	<7	0	24	0	<7	0	<7	0	0
Clarksburg	1	270	271	16,738.7	0	14	0	21	0	<7	0	9	1	<7

<sup>1.</sup> Represents crude rates per 100,000 residents. Population data used to calculate rates are from 2008 U.S. Census Estimates.

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The number of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality.

<sup>2.</sup> Motor vehicle related injuries include: motor vehicle occupants (i.e., drivers and passengers of cars and light trucks), pedestrians and pedal cyclists injured by a motor vehicle, and motorcyclists number of cars and light trucks. Section: Regional

<sup>3.</sup> Poisonings can include overdoses of prescription medicines, household cleaners, carbon monoxide poisoning, toxic effects of legal or illegal drugs, etc.

Table 14. Number and Rate of Fatal and Nonfatal Injuries, Selected Causes by City/Town of Residence (continued)

CITY / TOWN OF RESIDENCE		Total Ir	njuries		Unintentional Motor Vehicle Traffic <sup>2</sup>		Unintentional Falls Among Older Adults (Ages 65+)		Poisonings <sup>3</sup>		Homicide/ Assault		Suicide/Self-Inflicted	
	Injury Fatalities	Nonfatal Injuries	Total	Crude Rate <sup>1</sup>	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries
Clinton	8	2,321	2,329	16,677.4	3	205	0	152	1	42	0	52	2	48
Cohasset	4	538	542	7,560.3	1	31	1	84	1	<7	0	8	1	9
Colrain	0	246	246	13,092.1	0	23	0	15	0	<7	0	<7	0	
Concord	6	1,668	1,674	9,593.1	2	71	1	287	2	13	0	24	1	21
Conway	0	165	165	8,702.5	0	14	0	13	0	<7	0	<7	0	•
Cummington	0	107	107	11,099.6	0	7	0	<7	0	<7	0	<7	0	<7
Dalton	0	1,092	1,092	16,563.0		76	0	95	0	7	0	27	0	
Danvers	8	3,173	3,181	11,886.3	0	233	2	383	2	44	0	65		28
Dartmouth	13	3,126	3,139	9,259.9	0	329	1	267	5	43	0	96	4	41
Dedham	10	2,564	2,574	10,450.7	0	221	4	257	3	52	0	67	2	24
Deerfield	0	535	535	11,397.5	0	28	0	36	0	9	0	<7	0	
Dennis	11	2,326	2,337	15,225.7	2	220	2	302	2	25	0	59		32
Dighton	7	873	880	13,087.4	1	94	2	43	1	<7	0	20		
Douglas	1	807	808	10,157.1	0	74	1	23	0	19	0	13	0	13
Dover	0	537	537	9,514.5	0	26	0	40	0	<7	0	<7	0	
Dracut	11	3,464	3,475	11,779.3	1	358	0	190	4	47	0	102	3	38
Dudley	3	1,331	1,334	12,047.3	0	105	1	69	1	23	0	25		
Dunstable	0	179	179	5,386.7	0	15	0	8	0	<7	0	9	_	<7
Duxbury	5	1,510	1,515	10,451.2	0	78	2	189	0	13	0	14	2	
East Bridgewater	5	1,393	1,398	9,988.6	0	114	1	95	1	23	0	24		10
East Brookfield	0	275	275	13,369.0	0	23	0	21	0	<7	0	8	_	
East Longmeadow	6	1,103	1,109	7,233.2	1	114	2	185	1	23	1	16		12
Eastham	4	434	438	8,054.4	0	48	2	67	0	<7	0	10		
Easthampton	8	1,807	1,815	11,207.2	2	148	2	135	2	37	0	43		23
Easton	8	2,111	2,119	9,130.1	0	215	2	134	1	32	0	46	2	31
Edgartown	1	922	923	23,474.1	0	46	0	55	0	13	0	21	1	9
Egremont	2	149	151	11,176.9	0	7	0	11	0	<7	0	0		<7
Erving	1	263	264	17,010.3	1	23	0	18	0	<7	0	<7	0	<7
Essex	0	364	364	10,921.1	0	19	0	20	0	<7	0	7	0	
Everett	18	6,228	6,246	16,721.5	2	758	1	337	4	108	3	252	1	58
Fairhaven	11	1,920	1,931	11,984.9	3	187	1	220	4	32	1	50	1	22
Fall River	65	19,204	19,269	21,190.8	8	1,931	6	1,233	25	316	3	704	8	282

<sup>1.</sup> Represents crude rates per 100,000 residents. Population data used to calculate rates are from 2008 U.S. Census Estimates.

The number of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality.

<sup>2.</sup> Motor vehicle related injuries include: motor vehicle occupants (i.e., drivers and passengers of cars and light trucks), pedestrians and pedal cyclists injured by a motor vehicle, and motorcyclists. Section: Regional

<sup>3.</sup> Poisonings can include overdoses of prescription medicines, household cleaners, carbon monoxide poisoning, toxic effects of legal or illegal drugs, etc. Sources: Deaths - Registry of Vital Records and Statistics, MDPH; Nonfatal Injuries - MA Inpatient Hospital Discharge Database,

Table 14. Number and Rate of Fatal and Nonfatal Injuries, Selected Causes by City/Town of Residence (continued)

CITY / TOWN OF RESIDENCE		Total Ir	njuries		Vehicle Traffic		Unintentional Falls Among Older Adults (Ages 65+)		Poisonings <sup>3</sup>		Homicide/ Assault		Suicide/Self-Inflicted	
	Injury Fatalities	Nonfatal Injuries	Total	Crude Rate <sup>1</sup>	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries
Falmouth	16	5,828	5,844	17,643.3	2	366	4	700	4	81	0	124	2	62
Fitchburg	25	4,774	4,799	11,926.2	3	505	2	367	11	98	2	228	4	176
Florida	0	118	118	17,481.5	0	10	0	<7	0	<7	0	<7	0	-
Foxborough	10	1,701	1,711	10,466.8	2	139	0	100	4	29	0	32	3	26
Framingham	22	7,890	7,912	12,193.9	1	707	1	661	6	130	1	217	5	
Franklin	6	2,853	2,859	8,893.2	3	191	1	203	1	45	0	41	0	
Freetown	2	1,118	1,120	12,407.2	1	102	0	33	0	11	0	15		9
Gardner	11	3,099	3,110		0	246	1	186	3	64	0	132		77
Georgetown	1	847	848	9,827.3	0	52	0	47	0	<7	0	10	0	
Gill	1	138	139	10,014.4	0	<7	0	<7	1	<7	0	<7	0	
Gloucester	15	4,171	4,186	13,841.2	3	233	2	349	4	81	0	114		
Goshen	0	67	67	6,878.9	0	<7	0	7	0	<7	0	<7	0	•
Gosnold	0	<7	<7		0	0	0	0	0	0	0	0	_	
Grafton	6	1,525	1,531	8,722.2	3	114	1	86	0	24	0	23		<b>U</b>
Granby	1	579	580	9,234.2	0	58	0	47	0	<7	0	10	0	•
Granville	0	217	217	12,870.7	0	16		13	0	<7	0	<7	0	
Great Barrington	4	1,465	1,469	19,907.8	0	63	2	157	0	10		28		29
Greenfield	9	3,177	3,186	17,870.8	0	218	1	261	1	72	0	88		42
Groton	5	1,118	1,123	10,562.5	0	63	1	80	2	13	0	18		
Groveland	0	750	750	10,419.6	0	49	0	60	0	9		7	•	
Hadley	1	471	472	9,974.6	0	30	0	99	1	9		9		•
Halifax	3	874	877	11,401.5	1	95	0	41	1	14	0	24		
Hamilton	3	699	702	8,608.2	0	31	1	49	0	14	0	9		<7
Hampden	0	394	394	7,296.3	0	36	0	52	0	8		<7	0	•
Hancock	1	30	31	2,787.8	0	<7	0	<7	0	0		0	0	•
Hanover	6	1,200	1,206	8,617.4	0	89	1	81	2	15		31	1	9
Hanson	2	1,104	1,106	11,039.0	0	109	1	57	0	16	0	32		·
Hardwick	0	320	320	12,080.0	0	28	0	20	0	<7	0	<7	0	•
Harvard	0	471	471	7,842.2	0	28	0	42	0	7	0	<7	0	
Harwich	9	1,411	1,420	11,546.6	0	90	1	241	4	25	1	28	2	28
Hatfield	1	363	364	11,279.8	0	23	0	30	0	<7	0	<7	1	<7
Haverhill	36	8,890	8,926	14,567.1	5	801	4	649	9	141	2	317	6	135

<sup>1.</sup> Represents crude rates per 100,000 residents. Population data used to calculate rates are from 2008 U.S. Census Estimates.

The number of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality.

<sup>2.</sup> Motor vehicle related injuries include: motor vehicle occupants (i.e., drivers and passengers of cars and light trucks), pedestrians and pedal cyclists injured by a motor vehicle, and motorcyclists/Injuries to Massachusetts Residents, 2008

3. Poisonings can include overdoses of prescription medicines, household cleaners, carbon monoxide poisoning, toxic effects of legal or illegal drugs, etc.

<sup>3.</sup> Poisonings can include overdoses of prescription medicines, household cleaners, carbon monoxide poisoning, toxic effects of legal or illegal drugs, etc. Sources: Deaths - Registry of Vital Records and Statistics, MDPH; Nonfatal Injuries - MA Inpatient Hospital Discharge Database,

Table 14. Number and Rate of Fatal and Nonfatal Injuries, Selected Causes by City/Town of Residence (continued)

CITY / TOWN OF RESIDENCE		Total Ir	njuries		Unintentional Motor Vehicle Traffic <sup>2</sup>		Unintentional Falls Among Older Adults (Ages 65+)		Poisonings <sup>3</sup>		Homicide/ Assault		Suicide/Self-Inflicted	
	Injury Fatalities	Nonfatal Injuries	Total	Crude Rate <sup>1</sup>	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries
Hawley	0	7	7	2,077.2	0	<7	0	0	0	0	0	<7	0	0
Heath	0	49	49	6,140.4	0	<7	0	<7	0	0	0	<7	0	0
Hingham	16	1,720	1,736	7,694.7	3	98	8	300	1	31	0	30	1	13
Hinsdale	1	366	367	19,184.5		21	0	16	0	7	0	<7	0	<7
Holbrook	4	1,370	1,374	12,908.7	0	171	1	69	1	24	0	58	1	18
Holden	4	1,363	1,367	8,231.0		111	2	117	0	18	0	26	0	16
Holland	0	279	279	,	0	36	0	9	0	<7	0	<7	0	<7
Holliston	4	1,370	1,374	,	1	97	0	96	2	10	0	27	0	19
Holyoke	23	7,209	7,232	18,104.0		893	1	461	9	147	2	333	5	118
Hopedale	6	728	734			54	1	78	1	13	0	<7	2	<7
Hopkinton	5	1,335	1,340	,		66	1	90	1	23	0	12	1	<7
Hubbardston	2	438	440	,		43	0	22	1	7	0	8	1	<7
Hudson	8	2,141	2,149	,	1	170	0	147	1	40	0	42	1	27
Hull	2	1,193	1,195		0	93	0	84	0	31	0	42	0	26
Huntington	2	349	351	15,817.9		30	0	8	0	9	0	11	1	0
Ipswich	3	1,259	1,262	9,546.9		75	0	110	1	18	_	20	1	8
Kingston	8	1,572	1,580			132	1	169	2	24	0	34	1	14
Lakeville	5	1,066	1,071	10,185.4	2	114	0	60	0	13	0	21	2	12
Lancaster	0	890	890	,	0	66	0	57	0	16	0	14	0	17
Lanesborough	1	471	472	16,468.9		24	0	35	0	<7	0	8	0	8
Lawrence	31	12,223	12,254	17,502.2	3	1,438	2	466	10	201	3	636	3	189
Lee	6	882	888			66	1	87	0	11	0	12	1	13
Leicester	3	874	877	7,980.0		73	0	38	1	21	0	25	0	20
Lenox	3	778	781	15,328.8		48	1	176	0	<7	0	<7	0	17
Leominster	16	5,123	5,139	,	4	467	1	481	3	102	1	160	3	105
Leverett	0	131	131	7,392.8		15		11	0	0		<7	0	<7
Lexington	9	2,305	2,314	7,644.0	0	132	3	353	1	17	0	37	1	28
Leyden	0	<7	<7		0	0	0	0	0	0	ŭ	0	0	0
Lincoln	0	544	544	6,734.3	0	41	0	65	0	<7	0	7	0	-
Littleton	0	832	832	9,551.1	0	55	0	77	0	12	0	<7	0	8
Longmeadow	6	978	984	6,419.2	1	82	0	188	0	26	0	14	5	13
Lowell	51	15,024	15,075	14,549.1	7	1,765	4	785	16	223	6	708	8	217

<sup>1.</sup> Represents crude rates per 100,000 residents. Population data used to calculate rates are from 2008 U.S. Census Estimates.

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<sup>2.</sup> Motor vehicle related injuries include: motor vehicle occupants (i.e., drivers and passengers of cars and light trucks), pedestrians and pedal cyclists injured by a motor vehicle, and motorcyclists. Section: Regional

<sup>3.</sup> Poisonings can include overdoses of prescription medicines, household cleaners, carbon monoxide poisoning, toxic effects of legal or illegal drugs, etc. Sources: Deaths - Registry of Vital Records and Statistics, MDPH; Nonfatal Injuries - MA Inpatient Hospital Discharge Database,

Table 14. Number and Rate of Fatal and Nonfatal Injuries, Selected Causes by City/Town of Residence (continued)

CITY / TOWN OF RESIDENCE		Total Ir	njuries			onal Motor Traffic <sup>2</sup>	Among O	ional Falls Ider Adults s 65+)	Undete Poisc	tional and ermined enings <sup>3</sup>	Homicide	e/ Assault	Suicide/S	elf-Inflicted
	Injury Fatalities	Nonfatal Injuries	Total	Crude Rate <sup>1</sup>	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries
Ludlow	8	2,007	2,015	8,991.5	0	190	2	192	3	45	0	92	2	34
Lunenburg	6	992	998	10,034.2	2	80	0	71	2	17	0	16	1	17
Lynn	41	12,234	12,275	14,116.2	7	1,736	3	676	12	262	7	581	2	202
Lynnfield	1	1,188	1,189	10,418.9	1	81	0	151	0	8	0	14	0	9
Malden	27	7,007	7,034	12,651.8	4	793	2	417	14	168	1	253	3	70
Manchester	0	393	393	7,471.5	0	17	0	40	0	<7	0	<7	0	<7
Mansfield	10	2,165	2,175	9,074.2	1	155	0	135	3	32	1	36	4	25
Marblehead	8	1,653	1,661	8,325.4	0	105	3	224	1	30	0	32	2	8
Marion	1	715	716	13,908.3	0	48	0	91	0	12	0	11	0	8
Marlborough	23	4,485	4,508	11,884.4	3	384	8	396	4	68	0	117	2	62
Marshfield	14	2,370	2,384	9,638.2	5	190	1	160	2	43	0	82	3	34
Mashpee	3	1,929	1,932	13,579.8	0	186	1	173	1	34	0	40	0	30
Mattapoisett	5	683	688	10,645.2	0	46	1	70	1	<7	0	12	1	<7
Maynard	3	1,108	1,111	10,911.4	0	77	0	96	0	<7	0	22	1	15
Medfield	3	1,039	1,042	8,488.8	0	52	0	74	1	9	1	9	1	<7
Medford	28	6,640	6,668	11,998.6	1	569	6	653	10	108	0	182	4	58
Medway	3	1,319	1,322	10,340.2	1	77	0	83	1	17	0	30	1	13
Melrose	8	2,852	2,860	10,708.4	2	232	1	288	1	67	0	56	3	25
Mendon	1	630	631	10,951.1	1	55	0	47	0	7	0	<7	0	<7
Merrimac	2	750	752	11,562.1	0	60	1	64	0	<7	0	<7	1	12
Methuen	21	6,124	6,145	13,948.5	4	602	2	503	3	83	2	206	4	76
Middleborough	17	3,229	3,246	15,371.5	7	347	0	189	3	46	1	98	2	48
Middlefield	0	46	46	8,258.5	0	<7	0	<7	0	0	0	0	0	<7
Middleton	2	821	823	8,542.7	1	62	0	43	1	14	0	17	0	9
Milford	7	3,750	3,757	13,789.2	0	350	1	261	3	70	0	104	2	57
Millbury	4	1,386	1,390	10,372.4	0	113	0	116	2	27	0	36	1	31
Millis	5	771	776	9,752.4	1	61	1	55	1	16	0	13	0	7
Millville	1	305	306	10,755.7	0	24	0	7	0	<7	0	<7	1	<7
Milton	11	2,849	2,860	10,921.4	2	221	1	342	4	31	1	85	0	16
Monroe	0	19	19	19,791.7	0	0	0	<7	0	0	0	0	0	<7
Monson	4	1,129	1,133	12,656.4	1	104	0	87	1	13	0	31	1	13
Montague	4	1,471	1,475	17,736.9	0	101	0	96	1	23	1	34	1	10

<sup>1.</sup> Represents crude rates per 100,000 residents. Population data used to calculate rates are from 2008 U.S. Census Estimates.

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<sup>3.</sup> Poisonings can include overdoses of prescription medicines, household cleaners, carbon monoxide poisoning, toxic effects of legal or illegal drugs, etc. Sources: Deaths - Registry of Vital Records and Statistics, MDPH; Nonfatal Injuries - MA Inpatient Hospital Discharge Database,

Table 14. Number and Rate of Fatal and Nonfatal Injuries, Selected Causes by City/Town of Residence (continued)

CITY / TOWN OF RESIDENCE		Total Ir	njuries			onal Motor e Traffic <sup>2</sup>	Among O	onal Falls lder Adults s 65+)	Undet Poiso	tional and ermined onings <sup>3</sup>	Homicide	e/ Assault		elf-Inflicted
	Injury Fatalities	Nonfatal Injuries	Total	Crude Rate <sup>1</sup>	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries
Monterey	0	126	126	13,263.2	0	11	0	<7	0	0	0	<7	0	0
Montgomery	0	78	78	10,833.3	0	<7	0	<7	0	<7	0	<7	0	0
Mount Washington	0	17	17	12,500.0		<7	0	0	0	0	0	0	0	•
Nahant	2	333	335	9,576.9	0	33	1	53	0	<7	0	11	0	-
Nantucket	3	2,325	2,328	20,757.9	0	53	0	123	0	19	0	26		12
Natick	3	3,404	3,407	10,687.0	0	212	0	335	1	41	0	69	0	
Needham	8	2,846	2,854	9,993.0	0	116	3	398	1	47	0	24	3	
New Ashford	0	28	28	11,336.0	0	<7	0	<7	0	0	0	0	0	•
New Bedford	64	16,115	16,179	17,708.1	8	1,858	7	832	28	299	3	755	8	268
New Braintree	0	100	100	8,960.6	0	9	0	<7	0	<7	0	0	0	•
New Marlborough	2	197	199	13,196.3	0	7	0	13	0	0	1	<7	0	
New Salem	0	129	129	13,030.3	0	10	0	7	0	7	0	<7	0	•
Newbury	1	730	731	10,542.3	0	29	0	54	1	14	0	8	0	
Newburyport	6	1,870	1,876	10,694.3	0	86	2	215	0	31	0	22	1	19
Newton	20	7,565	7,585	9,234.3	1	440	6	1,008	1	86	0	130		50
Norfolk	3	909	912	8,269.1	0	57	1	36	0	13	1	26		9
North Adams	12	3,254	3,266	23,820.3	2	200	3	218	2	55	2	152	3	
North Andover	11	2,465	2,476	8,996.4	0	194	4	287	3	30	1	47	2	24
North Attleboro	14	2,955	2,969	10,682.2	1	217	2	167	4	39	0	56		
North Brookfield	3	528	531	10,987.0	2	45	0	29	0	10	0	16		10
North Reading	9	1,266	1,275	7,381.9	1	122	0	99	2	18	0	20		
Northampton	17	3,098	3,115	10,976.4	1	206	0	295	6	77	0	91	5	86
Northborough	2	1,099	1,101	7,517.4	1	65	0	88	0	22	0	20	0	
Northbridge	10	1,991	2,001	13,912.3	1	138	1	136	3	57	0	44	1	38
Northfield	1	324	325	10,740.3	1	30	0	15	0	<7	0	<7	0	
Norton	5	2,145	2,150	11,206.1	1	180	1	134	2	36	0	31	0	<b>U</b> .
Norwell	2	822	824	8,005.4	0	60	1	94	1	14	0	12	0	
Norwood	10	3,943	3,953	14,012.3	1	322	2	410	2	65	0	87	2	30
Oak Bluffs	2	586	588	15,743.0	0	15	0	55	0	<7	0	13		<7
Oakham	1	199	200	10,449.3	0	22	0	9	1	<7	0	9		<7
Orange	7	1,411	1,418	18,444.3	2	95	0	77	3	21	0	39		13
Orleans	2	569	571	9,108.3	0	42	2	108	0	7	0	9	0	<7

<sup>1.</sup> Represents crude rates per 100,000 residents. Population data used to calculate rates are from 2008 U.S. Census Estimates.

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Table 14. Number and Rate of Fatal and Nonfatal Injuries, Selected Causes by City/Town of Residence (continued)

CITY / TOWN OF RESIDENCE		Total Ir	njuries			onal Motor e Traffic <sup>2</sup>	Among O	onal Falls lder Adults s 65+)	Undet Poiso	tional and ermined onings <sup>3</sup>	Homicid	e/ Assault	Suicide/S	elf-Inflicted
	Injury Fatalities	Nonfatal Injuries	Total	Crude Rate <sup>1</sup>	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries
Otis	0	178	178	12,750.7	0	10	0	12	0	<7	0	<7	0	•
Oxford	6	1,681	1,687	12,390.7	0	138	2	96	1	30	0	35	1	33
Palmer	8	2,294	2,302	17,799.4	3	196	0	172	2	72	0	78	0	_~
Paxton	1	324	325	7,016.4	0	26	0	26	0	<7	0	<7	1	<7
Peabody	28	6,911	6,939	13,518.1	2	570	6	807	9	106	1	163	5	
Pelham	1	60	61	4,401.2	0	<7	0	7	1	0	0	<7	0	<7
Pembroke	4	1,931	1,935	10,339.9	1	183	0	105	2	33	0	42	1	19
Pepperell	6	1,064	1,070	9,400.8	0	78	1	50	2	14	0	14	1	23
Peru	1	90	91	10,937.5	0	8	0	<7	0	0	_	<7	1	0
Petersham	3	136	139	10,791.9	0	8	1	12	0	0	0	<7	0	<7
Phillipston	0	210	210	11,751.5	0	19	0	<7	0	<7	0	<7	0	•
Pittsfield	24	10,707	10,731	25,159.4	1	686	1	784	8	164	0	385	5	192
Plainfield	0	77	77	13,028.8	0	7	0	<7	0	0	_	<7	0	
Plainville	3	927	930	11,335.9	0	66	1	49	2	13	0	17	0	•
Plymouth	26	8,319	8,345	14,980.7	8	655	1	679	5	117	0	209	5	92
Plympton	2	379	381	13,680.4	2	39	0	24	0	<7	0	11	0	7
Princeton	2	268	270	7,769.8	2	20	0	22	0	<7	0	<7	0	•
Provincetown	3	282	285	8,441.9	0	17	1	43	2	<7	0	11	0	<7
Quincy	56	10,830	10,886	11,789.2	4	949	9	1,117	24	282	0	488	12	146
Randolph	6	3,721	3,727	12,389.5	0	653	0	255	2	50	0	167	0	• •
Raynham	5	1,699	1,704	12,560.8		163	1	122	2	28	0	32	1	19
Reading	8	2,015	2,023	8,775.8	0	108	2	207	2	32	0	35	2	30
Rehoboth	3	771	774	6,745.7	0	48	2	32	0	13	0	19	0	27
Revere	31	6,149	6,180	10,265.1	1	733	3	455	12	137	2	268	4	64
Richmond	0	154	154	9,796.4	0	14	0	11	0	<7	0	<7	0	•
Rochester	1	600	601	11,408.5		56	0	26	0	<7	0	8	_	•
Rockland	9	2,401	2,410	13,476.5	0	212	2	159	4	56	0	78		30
Rockport	0	797	797	10,470.3	0	41	0	112	0	11	0	10	0	10
Rowe	0	36	36	10,344.8	0	<7	0	<7	0	0	_	0	0	
Rowley	1	628	629	10,962.0		42	1	44	0	<7	0	9	0	•
Royalston	0	164	164	11,918.6	0	14	0	14	0	<7	0	<7	0	- 1
Russell	0	211	211	12,274.6	0	<7	0	11	0	<7	0	10	0	<7

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Table 14. Number and Rate of Fatal and Nonfatal Injuries, Selected Causes by City/Town of Residence (continued)

CITY / TOWN OF RESIDENCE		Total Ir	njuries			onal Motor e Traffic <sup>2</sup>	Among O	ional Falls Ider Adults s 65+)	Undet Poiso	tional and ermined onings <sup>3</sup>	Homicide	e/ Assault		elf-Inflicted
	Injury Fatalities	Nonfatal Injuries	Total	Crude Rate <sup>1</sup>	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries
Rutland	1	678	679	8,596.0	1	71	0	26	0	16	0	18	0	
Salem	18	5,383	5,401	13,091.4	2	498	2	425	4	78	0	195	4	75
Salisbury	1	1,304	1,305	15,504.3	0	57	0	86	1	19	0	32	0	18
Sandisfield	0	73	73	8,608.5	0	<7	0	8	0	0	0	<7	0	<7
Sandwich	14	2,345	2,359	11,719.4	0	183	5	177	3	52	0	34	2	38
Saugus	12	3,426	3,438	12,511.8	0	304	2	290	6	65	0	80	1	34
Savoy	0	85	85	11,772.9	0	9	0	7	0	<7	0	<7	0	0
Scituate	5	1,462	1,467	8,183.6	1	112	1	165	2	27	0	39		13
Seekonk	5	537	542	3,992.6	0	38	0	30	1	<7	0	13		9
Sharon	6	1,465	1,471	8,467.2	0	105	0	116	1	17	0	16	2	21
Sheffield	1	480	481	14,536.1	0	19	0	25	0	<7	0	<7	0	8
Shelburne	1	418	419	20,589.7	0	42	0	41	0	8	0	8		<7
Sherborn	0	403	403	9,586.1	0	19	0	30	0	<7	0	<7	0	•
Shirley	2	780	782	9,893.7	1	50	0	36	0	19	0	20		19
Shrewsbury	11	2,861	2,872	8,589.8	0	208	3	257	2	54	0	56		34
Shutesbury	1	94	95	5,143.5	1	10	0	7	0	0	0	<7	0	<7
Somerset	5	2,338	2,343	12,977.0	0	219	1	306	1	23	0	50		17
Somerville	20	8,432	8,452	11,170.7	2	737	2	489	5	188	1	385	5	95
South Hadley	4	1,606	1,610	9,338.2	0	143	0	173	3	23	0	27	1	24
Southampton	1	544	545	9,129.0		46	0	34	1	<7	0	<7	0	<7
Southborough	1	745	746	7,784.6	0	44	0	64	0	12	0	7	1	12
Southbridge	6	3,086	3,092	18,348.0	1	249	1	180	2	66	1	84	0	76
Southwick	6	1,266	1,272	13,290.1	0	90	0	112	4	17	0	18		
Spencer	4	1,323	1,327	11,130.7	3	101	1	68	0	24	0	32	0	26
Springfield	72	24,836	24,908	16,534.8	8	3,593	7	948	24	715	9	1,783	14	414
Sterling	0	841	841	10,692.9	0	55	0	70	0	15	0	14	0	7
Stockbridge	1	265	266	11,998.2	0	29	0	24	0	<7	0	<7	0	7
Stoneham	13	2,676	2,689	12,523.9	2	212	6	328	3	57	0	43	0	19
Stoughton	14	3,508	3,522	13,079.8	2	390	1	289	6	62	0	115	0	43
Stow	2	523	525	8,144.6	1	34	0	37	1	<7	0	<7	0	10
Sturbridge	4	1,059	1,063	11,677.5	0	77	0	79	1	19	0	15		32
Sudbury	5	1,593	1,598	9,286.9	1	80	1	142	0	<7	1	17	2	17

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	Injury Fatalities	Nonfatal Injuries	Total	Crude Rate <sup>1</sup>	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries
Sunderland	1	296	297	8,005.4	1	27	0	24	0	<7	0	<7	0	<7
Sutton	3	767	770	8,529.0	1	47	0	32	2	15	0	14	0	<7
Swampscott	10	1,312	1,322	9,480.8	0	101	1	177	4	27	0	28	1	20
Swansea	3	1,918	1,921	11,891.1	1	210	1	148	0	21	0	44	0	23
Taunton	27	10,697	10,724	19,252.5	3	1,082	2	571	9	217	3	366	5	195
Templeton	5	1,018	1,023	13,063.5		82	0	75	3	19		19	0	26
Tewksbury	13	2,945	2,958	10,012.5		235	3	247	3	38	0	73	4	38
Tisbury	4	1,297	1,301	34,138.0	1	50	1	111	1	10	0	23	0	18
Tolland	0	24	24	5,251.6	0	<7	0	<7	0	<7	0	0	0	•
Topsfield	3	621	624	10,312.3	0	37	1	55	0	7	0	<7	0	7
Townsend	6	922	928	9,872.3	2	78	0	50	2	9	0	12	0	• • •
Truro	0	136	136	6,400.0	0	12	0	16	0	<7	0	<7	0	<7
Tyngsborough	9	968	977	8,128.8	0	72	3	47	1	10		33	4	11
Tyringham	0	13	13	3,834.8	0	0	0	<7	0	0	·	0	0	0
Upton	2	741	743	11,284.9	0	46	0	32	0	8	1	9	0	<7
Uxbridge	8	1,524	1,532	12,089.7	3	144	0	70	2	22	0	26	0	18
Wakefield	14	2,717	2,731	11,049.1	1	205	2	222	8	36	0	53	1	26
Wales	2	223	225	11,961.7	0	17	0	12	0	<7	0	7	1	<7
Walpole	7	2,842	2,849	12,315.7	0	170	1	253	2	41	0	88	0	
Waltham	21	4,644	4,665	7,744.5	2	451	3	449	8	116	0	147	3	77
Ware	4	2,229	2,233	22,730.0	1	171	0	95	0	30		62	1	32
Wareham	19	4,613	4,632	21,827.4	6	432	0	229	6	40	1	106	2	46
Warren	2	813	815	16,081.3	1	70	0	40	0	23	0	21	1	11
Warwick	1	57	58	7,743.7	0	<7	0	<7	0	<7	0	<7	0	0
Washington	0	70	70	12,915.1	0	<7	0	<7	0	0	,	<7	0	•
Watertown	6	2,740	2,746	8,484.5	2	240	1	307	2	51	0	73	0	33
Wayland	5	1,110	1,115	8,579.6	1	64	1	141	0	12	0	18		8
Webster	10	2,989	2,999	18,006.6	2	206	1	222	2	92	0	70	3	48
Wellesley	14	2,089	2,103	7,719.1	0	85	3	213	3	24	0	18	5	20
Wellfleet	3	264	267	9,801.8	1	26	0	31	1	<7	0	8	1	<7
Wendell	0	149	149	14,900.0	0	10	0	<7	0	<7	0	<7	0	<7
Wenham	3	343	346	7,226.4	1	12	0	32	0	<7	0	7	1	<7

<sup>1.</sup> Represents crude rates per 100,000 residents. Population data used to calculate rates are from 2008 U.S. Census Estimates.

The number of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality.

<sup>2.</sup> Motor vehicle related injuries include: motor vehicle occupants (i.e., drivers and passengers of cars and light trucks), pedestrians and pedal cyclists injured by a motor vehicle, and motorcyclists. Section: Regional

<sup>3.</sup> Poisonings can include overdoses of prescription medicines, household cleaners, carbon monoxide poisoning, toxic effects of legal or illegal drugs, etc. Sources: Deaths - Registry of Vital Records and Statistics, MDPH; Nonfatal Injuries - MA Inpatient Hospital Discharge Database,

Table 14. Number and Rate of Fatal and Nonfatal Injuries, Selected Causes by City/Town of Residence (continued)

CITY / TOWN OF RESIDENCE		Total Ir	njuries			onal Motor e Traffic <sup>2</sup>	Among O	ional Falls Ider Adults s 65+)	Undet	tional and ermined onings <sup>3</sup>	Homicide	e/ Assault	Suicide/S	elf-Inflicted
	Injury Fatalities	Nonfatal Injuries	Total	Crude Rate <sup>1</sup>	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries	Injury Fatalities	Nonfatal Injuries
West Boylston	2	810	812	9,810.3	0	37	0	72	1	10	0	65	1	32
West Bridgewater	3	749	752	11,267.6	0	65	1	84	0	13	0	14	2	<7
West Brookfield	2	613	615	16,158.7	0	53	0	72	1	13	0	<7	0	•
West Newbury	1	397	398	9,323.0		13	0	31	0	<7	0	<7	1	<7
West Springfield	14	3,473	3,487	12,698.9	1	395	0	246	4	78	1	155	4	70
West Stockbridge	0	166	166	11,592.2	0	12	0	11	0	<7	0	<7	0	<7
West Tisbury	0	296	296	11,220.6	0	9	0	26	0	<7	0	<7	0	-
Westborough	6	1,573	1,579	8,550.4	0	100	3	163	0	33	0	46	1	81
Westfield	12	5,692	5,704	14,046.5	2	458	1	418	1	78	1	152	3	
Westford	2	1,729	1,731	7,844.6	0	112	1	122	1	13	0	29	0	
Westhampton	0	159	159	10,088.8	0	9	0	14	0	<7	0	<7	0	
Westminster	2	717	719	9,728.0		53	0	31	0	13	0	9	2	9
Weston	4	916	920	7,855.9	1	33	2	155	1	11	0	<7	0	•
Westport	9	1,860	1,869	12,123.0	2	187	1	150	1	18	0	30		
Westwood	3	1,466	1,469	10,353.1	1	82	0	216	1	14	0	15		8
Weymouth	30	6,676	6,706	12,590.8	4	598	7	561	12	149	0	195	3	103
Whately	0	100	100	6,385.7	0	<7	0	11	0	0	0	<7	0	-
Whitman	10	1,764	1,774	12,279.4	2	183	0	72	1	33	0	57	2	17
Wilbraham	8	1,224	1,232	8,818.9	1	114	1	192	1	17	0	22	3	18
Williamsburg	0	346	346	13,790.4	0	21	0	19	0	<7	0	0	0	•
Williamstown	4	836	840	10,542.2	1	50	0	146	0	10	0	9		11
Wilmington	13	1,964	1,977	9,132.1	1	157	1	177	5	45	2	36		
Winchendon	8	1,303	1,311	12,898.5		106	1	46	5	23	0	40	2	
Winchester	9	2,001	2,010	9,530.6	1	86	3	274	3	19	0	22	0	•
Windsor	0	110	110	13,002.4	0	7	0	8	0	<7	0	<7	0	
Winthrop	10	1,634	1,644	7,513.7	0	172	0	144	4	40	0	46	3	17
Woburn	24	4,534	4,558	12,362.0	3	480	1	422	7	56	1	118	8	
Worcester	89	22,450	22,539	12,878.6		2,137	12	1,390	29	643	2	1,233	15	568
Worthington	1	109	110	8,647.8	0	14	0	10	0	<7	0	<7	1	<7
Wrentham	5	1,115	1,120	10,060.2	0	81	1	114	2	12	0	30	0	-
Yarmouth	22	4,078	4,100	17,242.8	0	339	11	552	2	50	0	118	6	48

<sup>1.</sup> Represents crude rates per 100,000 residents. Population data used to calculate rates are from 2008 U.S. Census Estimates.

The number of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality.

<sup>2.</sup> Motor vehicle related injuries include: motor vehicle occupants (i.e., drivers and passengers of cars and light trucks), pedestrians and pedal cyclists injured by a motor vehicle, and motorcyclists.

<sup>3.</sup> Poisonings can include overdoses of prescription medicines, household cleaners, carbon monoxide poisoning, toxic effects of legal or illegal drugs, etc. Sources: Deaths - Registry of Vital Records and Statistics, MDPH; Nonfatal Injuries - MA Inpatient Hospital Discharge Database,

Trend Data: 2000-2008

Table 15. Number and Rate of Fatal and Nonfatal Unintentional Fall-related Injuries, MA Residents, 2000-2008

	20	00	20	01	20	02	20	03	200	04	20	05	20	06	20	07	20	80
Fatalities	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
<1 year	0	0.0	1		1		0	0.0	1		0	0.0	0	0.0	0	0.0	1	
1-14 years	1	-	2	-	3	-	2	-	3		1		1		0	0.0	1	
15-24 years	3	-	2	1	5	0.6	4	-	3		7	0.8	5	0.5	7	0.8	5	0.5
25-44 years	12	0.6		0.9	14	0.7	19	1.0		0.8	10	0.5	12	0.7	19	1.1	12	0.7
45-54 years	13	1.5		2.3	17	1.9	14	1.5	19	2.0		2.1	17	1.7	24	2.4	31	3.1
55-64 years	17	3.1	14	2.5	20	3.3	21	3.3	31	4.7	23	3.4	31	4.4	39	5.3	34	4.5
65-74 years	28	6.6		8.1	28	6.7	19	4.6	33	8.1	27	6.6	56	13.7	61	14.7	64	14.9
75-84 years	60	18.9		24.2	65	20.3	72	22.6		25.3	84	26.8	115	37.1	126	41.3	129	43.1
85+ years	66	56.0	72	59.6	69	56.1	97	76.3	87	67.4	95	71.5	169	123.5	176	125.2	202	141.2
Total <sup>2</sup>	200	3.1	240	3.7	222	3.5	248	3.9	272	4.2	267	4.1	406	6.3	452	7.0	479	7.4
Nonfatal Hospital Stays	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
<1 year	126	159.7	157	193.8	150	188.2	152	192.3	170	217.8	190	249.5	167	218.1	159	204.9	192	244.5
1-14 years	1,227	103.9	1,269	107.8	1,207	103.1	1,248	107.9	1,182	103.6	1,110	99.0	1,088	98.5	910	83.2	920	84.5
15-24 years	647	78.5	753	89.6	699	81.8	728	83.7	700	79.0	682	75.6	673	73.6	618	67.1	737	79.6
25-44 years	2,344	117.9	2,456	124.4	2,075	106.3	2,473	128.9	2,268	120.8	2,179	118.4	2,125	117.2	1,892	105.4	2,212	124.1
45-54 years	1,822	206.9	1,887	207.4	1,782	194.4	2,256	242.6	2,091	221.6	2,271	236.9	2,305	236.9	2,166	219.0	2,498	249.1
55-64 years	1,918	349.0	2,194	388.6	2,073	344.7	2,497	397.2	2,629	401.1	2,754	404.7	2,746	389.3	2,827	387.6	3,231	431.7
65-74 years	3,426	803.1	3,527	837.1	3,399	817.4	3,547	859.8	3,529	861.5	3,571	874.4	3,579	873.8	3,587	863.3	3,922	914.4
75-84 years	7,518	2373.6	7,475	2351.8	7,453	2333.2	7,918	2489.1	7,983	2523.5	7,944	2533.1	8,286	2676.2	8,027	2629.1	7,961	2661.9
85+ years	7,430	6305.6	7,142	5915.3	7,202	5852.1	7,691	6051.4	7,828	6060.7	7,836	5895.0	8,344	6098.0	8,438	6003.7	8,858	6190.2
Total <sup>2</sup>	26,458	415.8	26,860	419.2	26,040	404.8	28,510	442.6	28,380	440.9	28,537	443.5	29,313	454.9	28,624	442.6	30,531	469.9
Nonfatal ED Visits					Number	Rate <sup>1</sup>												
<1 year					2,291	2873.7	2,298	2908.0	2,353	3014.6		3014.1	2,480	3238.7	2,464	3176.1	2,546	
1-14 years					46,173	3945.0	44,825	3873.8	42,008	3682.3	40,099	3577.7	41,667	3773.9	42,206	3856.5	42,179	
15-24 years					20,045	2344.7	21,125	2427.8	19,410	2189.2	19,439	2153.5	19,961	2181.7	20,341	2207.9	21,773	2352.9
25-44 years					39,320	2014.6	43,044	2243.2	38,691	2060.5	38,144	2072.3	37,550	2070.7	37,256	2075.8	39,642	2224.0
45-54 years	Data w	ere not col	lected prior	to 2002	17,674	1928.4	20,620	2217.4	19,646	2082.2	20,130	2099.8	20,404	2096.8	21,436	2167.2	23,523	2345.2
55-64 years	Data w	CIC HOL COI	icotca prior	10 2002	11,931	1983.9	14,405	2291.5		2196.6		2137.7	15,520	2200.4	15,843	2172.0	17,682	2362.3
65-74 years					10,372	2494.2	11,334	2747.5		2686.0		2609.3	10,787	2633.6	11,001	2647.7	11,856	2764.1
75-84 years					14,526	4547.3	14,821	4659.1	14,843	4692.1	14,442	4605.1	14,911	4815.9	14,984	4907.8	15,174	5073.6
85+ years					10,145	8243.5	10,142	7979.9	10,437	8080.6	•	7921.7	11,053	8077.8	11,468	8159.5		8163.0
Total <sup>2</sup>					172,477	2681.1	182,619	2835.1	172,792	2684.2	170,282	2646.5	174,336	2705.6	176,999	2736.6	186,056	2863.3

<sup>1.</sup> Rates are age-specific (i.e., number of cases per 100,000 persons per age group). Population data used to calculate rates are from the 2008 U.S. Census Estimates. Rates based on counts less than 20 may be unstable.

Sources: Deaths - Registry of Vital Records and Statistics, MDPH. Nonfatal Injuries - MA Inpatient Hospital Discharge Database, MA Outpatient Observation Database, and MA Outpatient Emergency Department Database, Division of Health Care Finance and Policy

The number and rate of nonfatal injuries for counts less than 5 are also suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed based on the DHCFP rules pertaining to confidentiality.

Table 16. Number and Rate of Fatal and Nonfatal Unintentional Motor Vehicle Traffic-related Injuries, MA Residents, 2000-2008

	20	00	20	01	20	02	20	03	20	04	20	05	20	06	20	07	20	800
Fatalities	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>
<1 year	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	
1-14 years	16	1.4	19	1.6	5	0.4	17	1.5	19	1.7	10	0.9	11	1.0	5	0.5	5	0.5
15-24 years	116	14.1	124	14.8	127	14.9	125	14.5	128	14.6	111	12.5	112	12.4	129	14.2	87	9.4
25-44 years	133	6.7	171	8.7	168	8.6	146	7.6	146	7.8	119	6.4	112	6.2	113	6.3	71	4.0
45-64 years	107	7.5	104	7.1	107	7.0	95	6.1	119	7.4	113	6.9	117	7.0	89	5.2	89	
65-74 years	37	8.7	36	8.5	40	9.6	42	10.2	24	5.9	38	9.3	32	7.8	32	7.7	23	5.4
75-84 years	52	16.4	62	19.5	59	18.5	62	19.5	46	14.5	34	10.8	39	12.6	22	7.2	34	11.4
85+ years	12	10.2	19	15.7	16	13.0	19	15.0	26	20.2	21	15.8	21	15.4	18	12.9	24	16.8
Total <sup>3</sup>	473	7.4	535	8.3	522	8.1	506	7.9	508	7.9	446	6.9	444	6.9	408	6.3	334	5.1
Nonfatal Hospital Stays	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>
<1 year	<7		<7		<7	7.6	8	10.2	7	9.0	10	13.2	<7		<7		<7	
1-14 years	237	20.1	294	25.0	322	27.5	301	26.0	316	27.7	241	21.5	246	22.3	200	18.3	211	19.4
15-24 years	1,216	147.5	1,286	153.3	1,482	174.0	1,360	157.5	1,459	166.3	1,363	153.0	1,318	146.3	1,086	119.8	1,020	110.2
25-44 years	1,726	86.8	1,667	84.4	1,765	90.4	1,709	89.0	1,672	88.9	1,624	88.0	1,497	82.4	1,283	71.4	1,294	72.6
45-64 years	938	65.6	1,062	72.0	1,107	72.9	1,073	68.8	1,136	71.0	1,225	74.6	1,197	71.2	1,168	68.0	1,154	65.9
65-74 years	386	90.5	375	89.0	357	85.8	341	82.6	338	82.5	348	85.1	329	80.3	288	69.4	307	71.6
75-84 years	444	140.2	378	118.9	458	143.4	408	128.3	419	132.5	375	119.6	394	127.4	354	116.4	345	115.4
85+ years	132	112.0	112	92.8	165	134.3	154	121.4	138	107.0	152	114.7	150	109.9	138	98.7	160	111.8
Total <sup>3</sup>	5,181	81.4	5,177	80.8	5,662	88.0	5,354	83.2	5,486	85.3	5,338	83.0	5,134	79.8	4,522	70.1	4,494	69.2
Nonfatal ED Visits					Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>
<1 year					67	84.3	79	100.4	78	100.4	84	111.0	78	103.5	87	115.1	48	61.1
1-14 years					6,519	556.6	6,288	543.0	5,514	482.9	5,048	450.0	4,571	413.9	4,081	373.7	3,696	339.4
15-24 years					32,167	3,777.3	32,147	3,721.8	29,060	3,312.3	25,900	2,907.9	23,266	2,582.3	21,746	2,399.8	20,048	2,166.5
25-44 years					41,544	2,127.4	41,814	2,176.7	37,295	1,982.5	33,675	1,825.1	30,113	1,656.8	27,733	1,542.3	26,812	1,504.2
45-64 years	Data we	re not col	lected prior	to 2002	15,757	1,037.7	16,669	1,068.9	15,547	971.5	14,973	912.4	14,392	856.4	14,098	820.2	13,924	795.0
65-74 years	[				2,396	576.0	2,496	604.8	2,438	594.8	2,211	541.0	2,139	522.1	2,007	483.5	1,889	440.4
75-84 years	1				1,749	547.6	1,758	552.8	1,681	531.4	1,435	457.7	1,390	449.4	1,353	444.9	1,292	432.0
85+ years	1				413	336.0	354	279.1	395	306.4	351	264.8	424	310.5	380	271.9	349	243.9
Total <sup>3</sup>					100,613	1,564.3	101,608	1,578.1	92,010	1,430.1	83,677	1,301.5	76,374	1,187.0	71,485	1,108.3	68,058	1,047.4

<sup>1.</sup> Motor vehicle traffic-related injuries include: motor vehicle occupants (i.e., drivers and passengers of cars and light trucks), pedestrians and pedal cyclists injured by a motor vehicle, and motorcyclists.

Section: Trend Data

<sup>2.</sup> Rates are age-specific (i.e., number of cases per 100,000 persons per age group). Population data used to calculate rates are from the 2008 U.S. Census Estimates. Rates based on counts less than 20 may be unstable.

The number and rate of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed for Massachusettis Residents, 2008

<sup>3.</sup> Total includes cases for which age and/or sex was unknown or missing.

Table 17. Number and Rate of Fatal and Nonfatal Unintentional Traumatic Brain Injuries, MA Residents, 2000-2008

	20	00	20	01	20	02	20	03	20	04	20	05	20	06	20	07	20	08
Fatalities	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
<1 year	0	0.0	2		0	0.0	0	0.0	2	-	0	0.0	2		0	0.0	2	
1-14 years	11	0.9	13	1.1	7	0.6	8	0.7	8	0.7	6	0.5	12	1.1	5		10	0.9
15-24 years	44	5.3	52	6.2	57	6.7	46	5.3	43	4.9	63	7.1	72	8.0	95	10.5	73	7.9
25-44 years	48	2.4	76	3.8	58	3.0	48	2.5	42	2.2	58	3.1	70	3.9	100	5.6	68	3.8
45-64 years	58	4.1	64	4.3	63	4.1	44	2.8	71	4.4	74	4.5	103	6.1	126	7.3	104	5.9
65-74 years	43	10.1	33	7.8	36	8.7	28	6.8	33	8.1	32	7.8	54	13.2	65	15.7	53	12.4
75-84 years	73	23.0	84	26.4	73	22.9	60	18.9	61	19.3	79	25.2	89	28.8	99	32.6	111	37.1
85+ years	91	77.2	78	64.6	60	48.8	73	57.5	71	55.1	79	59.6	101	74.0	94	67.3	124	86.7
Total <sup>2</sup>	368	5.8	402	6.3	354	5.5	307	4.8	331	5.1	391	6.1	503	7.8	584	9.1	545	8.4
Nonfatal Hospital Stays	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
<1 year	118	149.7	145	179.5	155	195.1	162	205.8	183	235.5	178	235.2	162	214.9	162	214.4	192	244.5
1-14 years	610	51.7	575	48.8	499	42.6	536	46.3	502	44.0	489	43.6	488	44.2	407	37.3	422	38.8
15-24 years	651	79.0	670	79.8	726	85.3	798	92.4	809	92.2	820	92.1	782	86.8	659	72.7	640	69.2
25-44 years	868	43.7	814	41.2	916	46.9	924	48.1	917	48.7	926	50.2	911	50.1	735	40.9	760	42.6
45-64 years	680	47.5	701	47.5	798	52.6	857	55.0	983	61.4	1,166	71.1	1,099	65.4	1,118	65.0	1,147	65.5
65-74 years	403	94.5	390	92.6	406	97.6	465	112.7	495	120.8	492	120.4	543	132.5	565	136.1	574	133.8
75-84 years	657	207.4	682	214.6	712	222.9	768	241.5		287.7	846		1,042	336.9	1,055	346.9		349.4
85+ years	531	450.6	509	421.7	559	454.8	656	517.1	714	553.8	740	558.2	830	607.9	878	628.2	901	629.6
Total <sup>2</sup>	4,518	71.0	4,486	70.0	4,772	74.2	5,166	80.2	5,513	85.7	5,657	88.0	5,857	91.0	5,579	86.5	5,681	87.4
Nonfatal ED Visits					Number	Rate <sup>1</sup>												
<1 year					1,179	1,483.9	1,259	1,599.4	1,322	1,700.9	1,399	1,848.3	1,523	2,020.2	1,550	2,051.1	1,701	2,165.9
1-14 years					8,080	689.8	8,423	727.3	8,359	732.0	8,694	775.0	9,372	848.6	9,801	897.4	10,804	992.1
15-24 years					5,897	692.5	6,282	727.3	6,479	738.5	6,922	777.2	7,393	820.6	7,554	833.6	8,497	918.2
25-44 years					6,191	317.0	6,703	348.9	6,764	359.6	7,088	384.1	7,367	405.3	7,668	426.4	8,401	471.3
45-64 years	Data w	ere not coll	ected prior t	o 2002	3,536	232.9	4,238	271.8	4,534	283.3	5,148	313.7	5,853	348.3	6,536	380.3	7,600	433.9
65-74 years					1,094	263.0		307.5		345.0		372.2	1,749	426.9	2,025	487.9		
75-84 years					1,667	521.9	1,849	581.4	i '	621.2	2,271	724.3	2,772	896.2	3,126	1,027.9		1,177.3
85+ years					1,253	1,019.5	1,373	1,082.4	1,622	1,258.1	1,897	1,431.0	2,343	1,716.0	2,617	1,872.6	2,912	2,035.0
Total <sup>2</sup>					28,897	449.3	31,396	487.6	32,459	504.5	34,940	543.5	38,372	596.4	40,879	633.8	45,709	703.4

<sup>1.</sup> Rates are age-specific (i.e., number of cases per 100,000 persons per age group). Population data used to calculate rates are from the 2008 U.S. Census Estimates. Rates based on counts less than 20 may be unstable. The number and rate of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed for this table.

<sup>2.</sup> Total includes cases for which age and/or sex was unknown or missing.

Injuries to Massachusetts Residents, 2008

Table 18. Number and Rate of Fatal and Nonfatal Unintentional and Undetermined Poisoning/Overdoses, MA Residents, 2000-2008

	20	00	20	01	20	02	20	03	20	04	20	05	20	06	20	07	20	08
Fatalities	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
<1 year	0		0	0.0	1		2		0	0.0	1		0	0.0	0	0.0	0	0.0
1-14 years	0		1		0	0.0	0	0.0	3		2	-	1		1		1	
15-24 years	53	6.4	56	6.7	53	6.2	90	10.4	75	8.5	66	7.4	63	7.0	62	6.8	55	5.9
25-44 years	292	14.7	391	19.8	352	18.0	441	23.0	359	19.1	368	19.9	422	23.2	417	23.2	358	20.1
45-64 years	121	8.5	155	10.5	177	11.7	193	12.4	192	12.0	243	14.8	370	22.0	342	19.9	320	18.3
65-74 years	9	2.1	6	1.4	6	1.4	10	2.4	3		5	1.2	7	1.7	14	3.4	18	4.2
75-84 years	8	2.5	4		10	3.1	7	2.2	4		8	2.6	11	3.6	7	2.3	4	
85+ years	2		7	5.8	3		6	4.7	3		2		1		3		10	
Total	485	7.6	620	9.7	602	9.4	749	11.6	639	9.9	695	10.8	875	13.6	846	13.1	766	11.8
Nonfatal Hospital Stays	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
<1 year	11	14.0	20	24.8	15	18.9	20	25.4	14	18.0	24	31.7	25	33.2	22	29.1	22	28.0
1-14 years	325	27.5	282	23.9	267	22.8	204	17.6	232	20.3	222	19.8	211	19.1	194	17.8	204	18.7
15-24 years	396	48.0	401	47.8	421	49.4	425	49.2	427	48.7	417	46.8	442	49.1	366	40.4	374	40.4
25-44 years	948	47.7	930	47.1	1,002	51.3	1,129	58.8	1,124	59.7	1,166	63.2	1,129	62.1	1,013	56.3	1,074	60.3
45-64 years	531	37.1	616	41.8	765	50.4	816	52.3	1,037	64.8	1,136	69.2	1,098	65.3	1,144	66.6	1,225	69.9
65-74 years	182	42.7	183	43.4	180	43.3	207	50.2	215	52.5	267	65.3	288	70.3	289	69.6	321	74.8
75-84 years	202	63.8	215	67.6	246	77.0	210	66.0	278	87.9	250	79.7	307	99.3	328	107.9	332	111.0
85+ years	84	71.3	80	66.3	96	78.1	110	86.7	116	90.0	124	93.5	157	115.0	152	108.8	146	102.0
Total**	2,679	42.1	2,727	42.6	2,992	46.5	3,121	48.5	3,443	53.5	3,606	56.1	3,657	56.8	3,508	54.4	3,698	56.9
Nonfatal ED Visits					Number	Rate <sup>1</sup>												
<1 year					97	122.1	117	148.6	132	169.8	103	136.1	142	188.4	139	183.9	122	155.3
1-14 years					1,764	150.6	1,674	144.5	1,693	148.3	1,639	146.1	1,694	153.4	1,772	162.2	1,818	166.9
15-24 years					1,924	225.9	1,937	224.3	1,923	219.2	1,954	219.4	2,056	228.2	2,199	242.7	2,133	230.5
25-44 years					3,287	168.3	3,460	180.1	3,291	174.9	3,168	171.7	3,425	188.4	3,433	190.9	3,641	204.3
45-64 years	Data w	ere not coll	ected prior t	o 2002	1,462	96.3	1,606	103.0	1,770	110.6	1,895	115.5	2,022	120.3	2,159	125.6	2,202	125.7
65-74 years					211	50.7	200	48.5	228	55.6	227	55.5	266	64.9	279	67.2	301	70.2
75-84 years					167	52.3	131	41.2	171	54.1	189	60.3	229	74.0	228	75.0	258	86.3
85+ years					58	47.2	70	55.2	66	51.2	102	76.9	96	70.3	118	84.4	127	88.8
Total**					8,970	139.5	9,195	142.8	9,274	144.1	9,277	144.3	9,930	154.3	10,327	160.1	10,602	163.2

<sup>1.</sup> Rates are age-specific (i.e., number of cases per 100,000 persons per age group). Population data used to calculate rates are from the 2008 U.S. Census Estimates. Rates based on counts less than 20 may be unstable. The number and rate of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also suppressed for this table.

Injuries to Massachusetts Residents, 2008

<sup>2.</sup> Total includes cases for which age and/or sex was unknown or missing.

Table 19. Number and Rate of Suicides and Nonfatal Self-inflicted Injuries, MA Residents, 2000-2008

	20	00	20	01	20	02	20	03	20	04	20	05	20	06	20	07	20	08
Fatalities	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
<1 year	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
1-14 years	3		4		0	0.0	5	0.4	3		2	-	2		2		3	0.3
15-19 years	21	5.0	19	4.5	14	3.3	21	4.8	19	4.3	18	4.0	11	2.4	19	4.2	19	4.1
20-24 years	32	7.9	33	8.0	39	9.3	25	5.8	32	7.4	36	8.1	32	7.1	31	6.8	25	5.4
25-44 years	178	9.0	171	8.7	173	8.9	177	9.2	165	8.8	181	9.8	158	8.7	193	10.7	175	9.8
45-64 years	123	8.6	133	9.0	136	9.0	135	8.7	141	8.8	158	9.6	189	11.2	189	11.0	211	12.0
65-74 years	18	4.2	27	6.4	28	6.7	28	6.8	29	7.1	34	8.3	23	5.6	35	8.4	33	7.7
75-84 years	20	6.3	24	7.6	26	8.1	20	6.3	26	8.2	28	8.9	15	4.8	19	6.2	22	7.4
85+ years	6	5.1	9	7.5	9	7.3	12	9.5	14	10.9	12	9.1	7	5.1	16	11.4	11	7.7
Total <sup>2</sup>	401	6.3	420	6.6	425	6.6	423	6.6	429	6.7	469	7.3	437	6.8	504	7.8	499	7.7
Nonfatal Hospital Stays	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
<1 year	0	0.0	0	0.0	<7		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
1-14 years	139	11.8		10.1	104	8.9	131	11.3		11.4	110		68	6.2	56	5.1	78	7.2
15-19 years	609	146.1	586	138.1	551	128.0	569	130.4		105.2	513	114.3	514	113.6	451	99.5		108.0
20-24 years	530	130.1	480	115.7	504	119.7	518	121.2		123.6	488	110.5	523	116.6	517	114.2		110.1
25-44 years	2,124	106.8		104.6	1,987	101.8	2,100	109.3		108.2	2,000	108.4	2,051	112.8	1,962	109.1	1,963	110.1
45-64 years	774	54.1	787	53.4	825	54.3	908	58.2		60.8	1,065	64.9	1,140	67.8	1,134	66.0		72.9
65-74 years	92	21.6		16.6	70	16.8	79	19.1	60	14.6	80	19.6	88	21.5	104	25.1		18.7
75-84 years	48	15.2	55	17.3	40	12.5	52	16.3	45	14.2	74	23.6	48	15.5	57	18.7	49	16.4
85+ years	23	19.5	21	17.4	16	13.0	19	15.0	31	24.0	26	19.6	22	16.1	24	17.2	25	17.5
Total <sup>2</sup>	4,339	68.2	4,185	65.3	4,098	63.7	4,376	68.0	4,277	66.5	4,356	67.8	4,454	69.2	4,305	66.7	4,480	68.9
Nonfatal ED	,		·			_ 1		_ 1		_ 1		_ 1		_ 1		_ 1		_ 1
Visits					Number	Rate	Number	Rate <sup>1</sup>	Number	Rate	Number	Rate <sup>1</sup>						
<1 year					<7		<7		<7		<7		0	0.0	<7		1	
1-14 years					422	36.0	479	41.4	589	51.6	512	45.6	484	43.8	388	35.5	410	37.6
15-19 years					1,465	340.3	1,519	348.2	1,596	361.0	1,682	374.7	1,580	349.2	1,506	332.2	1,634	354.9
20-24 years					963	228.7	976	228.3	971	223.1	1,132	256.3	1,095	244.1	1,095	241.8	1,105	237.6
25-44 years	Dete	الممادة مما	antan mulau t	- 2002	2,784	142.6	2,560	133.3	2,560	136.1	2,676	145.0	2,798	153.9	2,728	151.7	2,428	136.2
45-64 years	Data W	ere not coll	ected prior t	0 2002	759	50.0	747	47.9	872	54.5	900	54.8	948	56.4	952	55.4	1,062	60.6
65-74 years					28	6.7	22	5.3	23	5.6	31	7.6	37	9.0	31	7.5	45	10.5
75-84 years					18	5.6	18	5.7	14	4.4	13	4.1	18	5.8	15	4.9	18	6.0
85+ years					<7	-	8	6.3	7	5.4	9	6.8	9	6.6	<7		11	7.7
Total <sup>2</sup>					6,445	100.2	6,330	98.3	6,633	103.1	6,956	108.2	6,969	108.3	6,720	104.2	6,714	103.3

<sup>1.</sup> Rates are age-specific (i.e., number of cases per 100,000 persons per age group). Population data used to calculate rates are from the 2008 U.S. Census Estimates. Rates based on counts less than 20 may be unstable.

The number and rate of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also is view that the rate of pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also is view that the rate of pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also is view that the rate of pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also is view that the rate of pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also is view that the rate of pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also is view to the rate of pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also is view to the rate of pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also is view to the rate of pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also is view to the rate of pertaining the rate of pertain

Table 20. Number and Rate of Homicides and Nonfatal Assault-related Injuries, MA Residents, 2000-2008

15-19 years   15   3.6   23   5.4   24   5   5   20-24 years   30   7.4   30   7.2   39   9   9   25-44 years   60   3.0   63   3.2   74   3   3   45-64 years   12   0.8   22   1.5   26   1   65-74 years   2     5   1.2   5   1   75-84 years   0   0.0   0   0.0   3   85+ years   0   0.0   0   0.0   1   Total <sup>2</sup>   125   2.0   153   2.4   185   2   Nonfatal Hospital Stays   Number Rate <sup>1</sup>   Number Rate <sup>1</sup>   Number Rate   Number R	9	4 3 0.7 5 3.7 1 7.3 2 2.7 9 1.2 4 3 7 Rate <sup>1</sup> 8 48.3 6 4.0 4 67.4 6 7.4 1 18.9	32 48 60 20 3 2 0 175 Number 27 66 315 418 876 305	Rate <sup>1</sup> 0.6 7.2 11.0 3.2 1.2 0.0 2.7 Rate <sup>1</sup> 34.7 5.8 71.2 96.0 46.6	66 15 7 2 1 177 Number 30 60 415 476	7.4 10.9 3.6 0.9 1.7  2.8 Rate <sup>1</sup>	Number  2 5 25 45 76 23 6 0 11 183 Number 19 57 374 492	Rate <sup>1</sup> 0.5 5.5 10.0 4.2 1.4 1.5 0.0 2.8 Rate <sup>1</sup> 25.2 5.2 82.7 109.7	Number  3 16 25 48 64 22 3 2 0 183 Number 27 58 375	Rate <sup>1</sup> 1.5 5.5 10.6 3.6 1.3 0.0 2.8 Rate <sup>1</sup> 35.7 5.3	26 37 73 27 1 0 0 166 Number 47 65 371	Rate <sup>1</sup> 0.0   5.6  8.0  4.1  1.5   0.0  0.0  2.6  Rate <sup>1</sup> 59.8  6.0  80.6
1-14 years	9	3 0.7 6 3.7 1 7.3 2 2.7 9 1.2 4 3 2 2.2 r Rate <sup>1</sup> Rate <sup>1</sup> 6 4.0 4 67.4 6 92.4 1 46.4 1 18.9	7 32 48 60 20 3 2 0 175 Number 27 66 315 418 876 305	0.6 7.2 11.0 3.2 1.2 0.0 2.7 Rate <sup>1</sup> 34.7 5.8 71.2 96.0 46.6	33 48 66 15 7 2 1 177 Number 30 60 415 476	7.4 10.9 3.6 0.9 1.7  2.8 Rate <sup>1</sup> 39.6 5.3 92.4	5 25 45 76 23 6 0 1 183 Number 19 57	5.5 10.0 4.2 1.4 1.5 0.0  2.8 Rate <sup>1</sup> 25.2 5.2	16 25 48 64 22 3 2 0 183 Number 27 58 375	1.5 5.5 10.6 3.6 1.3  0.0 2.8 Rate <sup>1</sup> 35.7 5.3	2 26 37 73 27 1 0 0 166 Number 47 65	 5.6 8.0 4.1 1.5  0.0 0.0 2.6 Rate <sup>1</sup> 59.8 6.0 80.6
15-19 years   15   3.6   23   5.4   24   5   5   20-24 years   30   7.4   30   7.2   39   9   9   25-44 years   60   3.0   63   3.2   74   3   3   45-64 years   12   0.8   22   1.5   26   1   65-74 years   2     5   1.2   5   1   75-84 years   0   0.0   0   0.0   3   85+ years   0   0.0   0   0.0   1   Total <sup>2</sup>   125   2.0   153   2.4   185   2   Nonfatal Hospital Stays   Number Rate <sup>1</sup>   Number Rate <sup>1</sup>	6 1 3 3 8 5 7 1 2 9 13 Numbee 3 3 3 9 4 6 29 0 39 1 89 3 29 5 3	6 3.7 7.3 2 2.7 9 1.2 4 8 9 2.2 7 Rate <sup>1</sup> Rate <sup>1</sup> 6 4.0 4 67.4 5 92.4 1 18.9	32 48 60 20 3 2 0 175 Number 27 66 315 418 876 305	7.2 11.0 3.2 1.2  0.0 2.7 Rate <sup>1</sup> 34.7 5.8 71.2 96.0 46.6	33 48 66 15 7 2 1 177 Number 30 60 415 476	10.9 3.6 0.9 1.7  2.8 Rate <sup>1</sup> 39.6 5.3 92.4	25 45 76 23 6 0 1 183 Number 19 57 374	5.5 10.0 4.2 1.4 1.5 0.0  2.8 Rate <sup>1</sup> 25.2 5.2	25 48 64 22 3 2 0 183 Number 27 58 375	5.5 10.6 3.6 1.3  0.0 2.8 Rate <sup>1</sup> 35.7 5.3	26 37 73 27 1 0 0 166 Number 47 65 371	8.0 4.1 1.5  0.0 0.0 2.6 Rate <sup>1</sup> 59.8 6.0 80.6
20-24 years   30   7.4   30   7.2   39   9   25-44 years   60   3.0   63   3.2   74   3   3   45-64 years   12   0.8   22   1.5   26   1   65-74 years   2     5   1.2   5   1   75-84 years   0   0.0   0   0.0   0   3   85+ years   0   0.0   0   0.0   1   Total²   125   2.0   153   2.4   185   2   Nonfatal Hospital Stays   Number Rate¹   Number Rate²   125-19 years   246   59.0   293   69.0   304   70   20-24 years   353   86.6   376   90.7   396   94   25-44 years   751   37.8   844   42.7   822   42   45-64 years   209   14.6   260   17.6   262   17   65-74 years   25   7.9   16   5.0   19   5   85+ years   10   8.5   10   8.3   19   15   Total²   1,723   27.1   1,901   29.7   1,962   30   Nonfatal ED   Visits   Number Rate   17   21   1,633   139   15   15   15   15   15   15   15   1	3 3 3 3 3 7 1 2 9 13 Numbe 3 3 3 9 4 6 29 0 39 1 89 3 29 5 3	1 7.3 2 2.7 9 1.2 4 3 9 2.2 7 Rate <sup>1</sup> 8 48.3 6 4.0 4 67.4 9 92.4 1 46.4 4 18.9	48 60 20 3 2 0 175 Number 27 66 315 418 876 305	11.0 3.2 1.2  0.0 2.7 Rate <sup>1</sup> 34.7 5.8 71.2 96.0 46.6	48 66 15 7 2 1 177 Number 30 60 415 476	10.9 3.6 0.9 1.7  2.8 Rate <sup>1</sup> 39.6 5.3 92.4	45 76 23 6 0 1 183 Number 19 57 374	10.0 4.2 1.4 1.5 0.0  2.8 Rate <sup>1</sup> 25.2 5.2	48 64 22 3 2 0 183 Number 27 58 375	10.6 3.6 1.3  0.0 2.8 Rate <sup>1</sup> 35.7 5.3	37 73 27 1 0 0 166 Number 47 65 371	8.0 4.1 1.5  0.0 0.0 2.6 Rate <sup>1</sup> 59.8 6.0
25-44 years 60 3.0 63 3.2 74 3 45-64 years 12 0.8 22 1.5 26 1 65-74 years 2 5 1.2 5 1 75-84 years 0 0.0 0 0.0 3 85+ years 0 0.0 0 0.0 1 Total <sup>2</sup> 125 2.0 153 2.4 185 2  Nonfatal Hospital Stays 128 34.7 40 50 1-14 years 66 5.6 62 5.3 69 5 15-19 years 246 59.0 293 69.0 304 70 20-24 years 353 86.6 376 90.7 396 94 25-44 years 751 37.8 844 42.7 822 42 45-64 years 209 14.6 260 17.6 262 17 65-74 years 25 7.9 16 5.0 19 5 85+ years 10 8.5 10 8.3 19 15 Total <sup>2</sup> 1,723 27.1 1,901 29.7 1,962 30 Nonfatal ED Visits 12 0.8 22 12 1,633 139	8 5 7 1 2 9 13 Numbe 3 3 9 4 6 29 0 39 1 89 3 29 5 3	2 2.7 9 1.2 4 8 9 2.2 T Rate <sup>1</sup> Rate <sup>1</sup> 48.3 6 4.0 4 67.4 5 92.4 1 18.9	60 20 3 2 0 175 Number 27 66 315 418 876 305	3.2 1.2  0.0 2.7 Rate <sup>1</sup> 34.7 5.8 71.2 96.0 46.6	66 15 7 2 1 177 Number 30 60 415 476	3.6 0.9 1.7  2.8 Rate <sup>1</sup> 39.6 5.3 92.4	76 23 6 0 1 183 Number 19 57 374	4.2 1.4 1.5 0.0  2.8 Rate <sup>1</sup> 25.2 5.2	64 22 3 2 0 183 Number 27 58 375	3.6 1.3  0.0 2.8 Rate <sup>1</sup> 35.7 5.3	73 27 1 0 0 166 Number 47 65 371	4.1 1.5  0.0 0.0 2.6 Rate <sup>1</sup> 59.8 6.0 80.6
12   0.8   22   1.5   26   1   1   1   1   1   1   1   1   1	7 1 2	9 1.2 4 3 9 2.2 r Rate <sup>1</sup> 8 48.3 6 4.0 1 67.4 5 92.4 1 18.9	20 3 2 0 175 Number 27 66 315 418 876 305	1.2  0.0 2.7 Rate <sup>1</sup> 34.7 5.8 71.2 96.0 46.6	15 7 2 1 177 Number 30 60 415 476	0.9 1.7  2.8 Rate <sup>1</sup> 39.6 5.3 92.4	23 6 0 1 183 Number 19 57 374	1.4 1.5 0.0  2.8 Rate <sup>1</sup> 25.2 5.2	22 3 2 0 183 Number 27 58 375	1.3  0.0 2.8 Rate <sup>1</sup> 35.7 5.3 82.7	27 1 0 0 166 Number 47 65 371	1.5  0.0 0.0 2.6 Rate <sup>1</sup> 59.8 6.0 80.6
Second	2	4	3 2 0 175 Number 27 66 315 418 876 305	 0.0 2.7 Rate <sup>1</sup> 34.7 5.8 71.2 96.0 46.6	7 2 1 177 Number 30 60 415 476	1.7  2.8 Rate <sup>1</sup> 39.6 5.3 92.4	6 0 1 183 Number 19 57 374	1.5 0.0  2.8 Rate <sup>1</sup> 25.2 5.2	3 2 0 183 Number 27 58 375	 0.0 2.8 Rate <sup>1</sup> 35.7 5.3 82.7	1 0 0 166 Number 47 65 371	 0.0 0.0 2.6 Rate <sup>1</sup> 59.8 6.0
75-84 years         0         0.0         0         0.0         3           85+ years         0         0.0         0         0.0         1           Total²         125         2.0         153         2.4         185         2           Nonfatal Hospital Stays         Number         Rate¹         Number         Rate¹         Number         Rate¹           <1 year	9 13 Numbee 3 3 3 9 4 6 29 0 39 1 89 3 29 5 3	Rate <sup>1</sup> Rate <sup>1</sup> Rate <sup>1</sup> 67.4 67.4 67.4 18.9	2 0 175 Number 27 66 315 418 876 305	2.7 Rate <sup>1</sup> 34.7 5.8 71.2 96.0 46.6	2 1 177 Number 30 60 415 476	2.8 Rate <sup>1</sup> 39.6 5.3 92.4	0 1 183 Number 19 57 374	0.0  2.8 Rate <sup>1</sup> 25.2 5.2 82.7	2 0 183 Number 27 58 375	 0.0 2.8 Rate <sup>1</sup> 35.7 5.3 82.7	0 0 166 Number 47 65 371	0.0 0.0 2.6 Rate <sup>1</sup> 59.8 6.0 80.6
85+ years         0         0.0         0         0.0         1           Total²         125         2.0         153         2.4         185         2           Nonfatal Hospital Stays         Number         Rate¹         Number         Rate²         17         21         1,633         139         13         13         13         13         13         13         13         13         13         13         13         13<	9 13 Numbe 3 3 3 9 4 6 29 0 39 1 89 3 29 5 3	2	0 175 Number 27 66 315 418 876 305	2.7 Rate <sup>1</sup> 34.7 5.8 71.2 96.0 46.6	1 177 Number 30 60 415 476	Rate <sup>1</sup> 39.6 5.3 92.4	1 183 Number 19 57 374	2.8 Rate <sup>1</sup> 25.2 5.2 82.7	0 183 Number 27 58 375	0.0 2.8 Rate <sup>1</sup> 35.7 5.3 82.7	0 166 Number 47 65 371	0.0 2.6 Rate <sup>1</sup> 59.8 6.0 80.6
Total <sup>2</sup> 125         2.0         153         2.4         185         2           Nonfatal Hospital Stays         Number         Rate <sup>1</sup> Number         Rate <sup>1</sup> Number         Rate <sup>1</sup> Number         Rate <sup>1</sup> <1 year	9 13 Numbe 3 3 3 9 4 6 29 0 39 1 89 3 29 5 3	P 2.2 Rate <sup>1</sup> Rate <sup>1</sup> 8 48.3 6 4.0 1 67.4 5 92.4 1 46.4 1 18.9	175 Number 27 66 315 418 876 305	2.7 Rate <sup>1</sup> 34.7 5.8 71.2 96.0 46.6	177 Number 30 60 415 476	Rate <sup>1</sup> 39.6 5.3 92.4	183 Number 19 57 374	Rate <sup>1</sup> 25.2 5.2 82.7	183 Number 27 58 375	2.8 Rate <sup>1</sup> 35.7 5.3 82.7	166 Number 47 65 371	2.6 Rate <sup>1</sup> 59.8 6.0 80.6
Nonfatal Hospital Stays         Number         Rate <sup>1</sup> Number         Rate <sup>2</sup> Number         Rate <sup>3</sup> 41 year         10         8.5         10         8.3         19         15           Nonfatal ED         Visits         Number         Rate           1-14 years         1,633         139	Numbe 3 3 3 9 4 6 29 0 39 1 89 3 29 5 3	Rate <sup>1</sup> 8 48.3 6 4.0 4 67.4 5 92.4 1 46.4 4 18.9	Number 27 66 315 418 876 305	Rate <sup>1</sup> 34.7 5.8 71.2 96.0 46.6	30 60 415 476	Rate <sup>1</sup> 39.6 5.3 92.4	Number 19 57 374	Rate <sup>1</sup> 25.2 5.2 82.7	Number 27 58 375	Rate <sup>1</sup> 35.7 5.3 82.7	Number 47 65 371	Rate <sup>1</sup> 59.8 6.0 80.6
Number   Rate   Number   Rate   Number   Rate   Rate   Number   Rate	3 3 9 4 6 29 0 39 1 89 3 29 5 3	8 48.3 6 4.0 4 67.4 5 92.4 1 46.4 4 18.9	27 66 315 418 876 305	34.7 5.8 71.2 96.0 46.6	30 60 415 476	39.6 5.3 92.4	19 57 374	25.2 5.2 82.7	27 58 375	35.7 5.3 82.7	47 65 371	59.8 6.0 80.6
Number   N	3 3 9 4 6 29 0 39 1 89 3 29 5 3	8 48.3 6 4.0 4 67.4 5 92.4 1 46.4 4 18.9	27 66 315 418 876 305	34.7 5.8 71.2 96.0 46.6	30 60 415 476	39.6 5.3 92.4	19 57 374	25.2 5.2 82.7	27 58 375	35.7 5.3 82.7	47 65 371	59.8 6.0 80.6
1-14 years         66         5.6         62         5.3         69         5           15-19 years         246         59.0         293         69.0         304         70           20-24 years         353         86.6         376         90.7         396         94           25-44 years         751         37.8         844         42.7         822         42           45-64 years         209         14.6         260         17.6         262         17           65-74 years         33         7.7         12         2.8         31         7           75-84 years         25         7.9         16         5.0         19         5           85+ years         10         8.5         10         8.3         19         15           Total <sup>2</sup> 1,723         27.1         1,901         29.7         1,962         30           Nonfatal ED         Visits         Number         Rate           <1 year	9 4 6 29 0 39 1 89 3 29 5 3	6 4.0 4 67.4 5 92.4 1 46.4 4 18.9	66 315 418 876 305	5.8 71.2 96.0 46.6	60 415 476	5.3 92.4	57 374	5.2 82.7	58 375	5.3 82.7	65 371	6.0 80.6
15-19 years 246 59.0 293 69.0 304 70 20-24 years 353 86.6 376 90.7 396 94 25-44 years 751 37.8 844 42.7 822 42 45-64 years 209 14.6 260 17.6 262 17 65-74 years 33 7.7 12 2.8 31 7 75-84 years 25 7.9 16 5.0 19 5 85+ years 10 8.5 10 8.3 19 15 Total <sup>2</sup> 1,723 27.1 1,901 29.7 1,962 30  Nonfatal ED Visits	6 29 0 39 1 89 3 29 5 3	67.4 5 92.4 1 46.4 4 18.9	315 418 876 305	71.2 96.0 46.6	415 476	92.4	374	82.7	375	82.7	371	80.6
20-24 years     353     86.6     376     90.7     396     94       25-44 years     751     37.8     844     42.7     822     42       45-64 years     209     14.6     260     17.6     262     17       65-74 years     33     7.7     12     2.8     31     7       75-84 years     25     7.9     16     5.0     19     5       85+ years     10     8.5     10     8.3     19     15       Total <sup>2</sup> 1,723     27.1     1,901     29.7     1,962     30       Nonfatal ED Visits     Number Rate       <1 year	.0 39 .1 89 .3 29 .5 3	92.4 1 46.4 4 18.9	418 876 305	96.0 46.6	476							
25-44 years 751 37.8 844 42.7 822 42 45-64 years 209 14.6 260 17.6 262 17 65-74 years 33 7.7 12 2.8 31 7 75-84 years 25 7.9 16 5.0 19 5 85+ years 10 8.5 10 8.3 19 15 Total <sup>2</sup> 1,723 27.1 1,901 29.7 1,962 30 Nonfatal ED Visits Rate <1 year 17 21 1-14 years 16.633 139	.1 89 .3 29 .5 3	1 46.4 4 18.9	876 305	46.6		107.8	492	100.7	400	404.0	467	466
45-64 years         209         14.6         260         17.6         262         17           65-74 years         33         7.7         12         2.8         31         7           75-84 years         25         7.9         16         5.0         19         5           85+ years         10         8.5         10         8.3         19         15           Total <sup>2</sup> 1,723         27.1         1,901         29.7         1,962         30           Nonfatal ED Visits         Number Rate           <1 year	.3 29 .5 3	18.9	305		005			109.7	460	101.6	407	100.4
65-74 years 33 7.7 12 2.8 31 7 75-84 years 25 7.9 16 5.0 19 5 85+ years 10 8.5 10 8.3 19 15 Total <sup>2</sup> 1,723 27.1 1,901 29.7 1,962 30 Nonfatal ED Visits Number Rate <1 year 17 21 1-14 years 133 7.7 12 2.8 31 7  Number 15 7  Number Rate 17 21 1,633 139	.5 3				935	50.7	958	52.7	958	53.3	993	55.7
75-84 years 25 7.9 16 5.0 19 5 85+ years 10 8.5 10 8.3 19 15 Total <sup>2</sup> 1,723 27.1 1,901 29.7 1,962 30  Nonfatal ED  Visits  <1 year 17 21 1-14 years 1,633 139		8.5		19.1	354	21.6	405	24.1	392	22.8	457	26.1
85+ years   10   8.5   10   8.3   19   15     Total <sup>2</sup>   1,723   27.1   1,901   29.7   1,962   30     Nonfatal ED Visits				5.4	31	7.6	25	6.1	36	8.7	47	11.0
Total <sup>2</sup> 1,723 27.1 1,901 29.7 1,962 30  Nonfatal ED  Visits 17 21  1-14 years 1,723 27.1 1,901 29.7 1,962 30  Number Rate  17 21  1,633 139	.9 2	6.9	30	9.5	28	8.9	20	6.5	25	8.2	27	9.0
Nonfatal ED Visits         Number         Rate           <1 year	.5 1	7.9	8	6.2	<7		17	12.5	12	8.6	12	8.4
Visits         Number         Rate           <1 year	.5 2,02	31.5	2,067	32.1	2,335	36.3	2,367	36.8	2,343	36.3	2,486	38.3
Visits     17     21       1-14 years     1,633     139	Numbe	n D-4-1	Number	Rate <sup>1</sup>	Number	Deta1	Number	Data1	Number	Deta1	Number	Data1
1-14 years 1,633 139	Numbe	r Rate <sup>1</sup>	Number	Rate	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
	.4 3	38.1	19	24.4	16	21.1	24	31.8	20	26.5	15	19.1
	.4 1,59	137.3	1,506	131.9	1,411	125.8	1,488	134.7	1,326	121.4	1,294	118.8
15-19 years 4,394 1,020	.7 4,48	1,028.4	4,267	965.1	4,156	925.7	4,464	986.7	4,346	958.6	4,121	895.1
20-24 years 5,137 1,219	.9 4,99	1,168.0	5,047	1,159.7	4,815	1,090.1	5,139	1,145.7	5,421	1,197.3	5,322	1,144.6
25-44 years	.4 10,52	547.6	10,023	532.8	9,897	536.4	10,051	553.0	10,347	575.4	10,312	578.5
45-64 years  Data were not collected prior to 2002  2,760 181	.8 2,77	178.0	2,810	175.6	2,819	171.8	3,141	186.9	3,526	205.1	3,627	207.1
65-74 years 153 36	.8 15	37.6	127	31.0	141	34.5	110	26.8	157	37.8	144	33.6
75-84 years 59 18	_	21.7	61	19.3	69	22.0		40.0	57	18.7	76	25.4
85+ years 30 24	.5 6					22.0	58	18.8	57	10.7		25.4
Total <sup>2</sup> 24,931 387			21	16.3		15.1	58 22	18.8 16.1	27	19.3		25.4 16.8

<sup>1.</sup> Rates are age-specific (i.e., number of cases per 100,000 persons per age group). Population data used to calculate rates are from the 2008 U.S. Census Estimates. Rates based on counts less than 20 may be unstable.

The number and rate of nonfatal injuries for counts less than 7 are suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also than 7 are suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also than 7 are suppressed based on the DHCFP rules pertaining to confidentiality. The rate of fatal injuries based on counts less than 5 are also than 5 are also

<sup>2.</sup> Total includes cases for which age and/or sex was unknown or missing.

Section: Trend Data

#### **Technical Notes**

#### **Definitions:**

Hospital Discharges: Individuals admitted and subsequently discharged from a Massachusett's acute care hospital.

Observation Stays: Individuals discharged from an observation bed of a Massachusett's acute care hospital.

Hospital Stays: Combines hospital discharges and observation stays into one category to facilitate data presentation.

ED Visits: Individuals discharged from the emergency department of an acute care hospital.

#### **Injury Parameters:**

Injuries are classified using multiple parameters. For example, an injury may be classified by the nature of an injury (e.g., a fracture, open wound); anatomical location (e.g., head, hip); by the mechanism or external cause of the injury (e.g., a fall, firearm, motor vehicle); and by intent, such as unintentional, assault-related, self-inflicted, undetermined, etc.

In this report injuries are classified by their external cause and intent according to the International Classification of Diseases (ICD) system. In 1999 a revised version, ICD-10, was implemented for classifying <u>deaths</u>, but not nonfatal injuries, which still use ICD-9 classification. Certain injury categories may not be comparable between ICD-9 (the previous version) and ICD-10 systems.

A modified version of the *Matrix of E-code Groupings for Presenting Injury Mortality and Morbidity Data*, developed by the Centers for Disease Control and Prevention, was used to group injury categories. This grouping of ICD-9 and ICD-10 external causes of injury codes can be found in appendices A and B.

#### **Data Sources and Inclusion Criteria:**

Injury Fatalities:

Source: Registry of Vital Records and Statistics, MA Department of Public Health.

An injury death is defined as:

any death with an ICD-10 code of V01-Y36, Y40-Y89, U01-U03 in the underlying cause field. This includes Adverse Effects of Medical Care and Drugs.

Massachusetts residents who died in or out-of-state are included in these analyses; out-of-state residents who died in Massachusetts are not included.

#### Nonfatal Injury-Related Hospital Discharges:

Source: MA Inpatient Hospital Discharge Database, MA Division of Health Care Finance and Policy.

An injury-related hospital discharge case is defined as:

any case having an ICD9-CM Nature of Injury Code of: 800-908, 9090-9092, 9094, 9099, 910-994, 99550-99559, 99580-99585, assigned to any of the ICD9 diagnosis fields.

Injury-related hospital discharge cases transferred to another acute care hospital or who subsequently died in the hospital are excluded from these analyses.

Residency is based on patient's state, city/town and ZIP code. Only Massachusetts residents are included in these analyses.

#### Nonfatal Injury-Related Observation Stays:

Source: MA Outpatient Observation Bed Database, MA Division of Health Care Finance and Policy.

This database contains cases where a hospital bed is used for observation. Patients are not included in the hospital discharge database.

An injury-related "observation" case is defined as:

any case having an ICD9-CM Nature of Injury Code of: 800-908, 9090-9092, 9094, 9099, 910-994, 99550-99559, 99580-99585, assigned to any of the ICD9 diagnosis fields.

Residency is based on patient's state, city/town and ZIP code. Only Massachusetts residents are included in these analyses.

Injury-related observation cases who subsequently died or were admitted to the hospital are excluded from this category.

A general definition of Outpatient Observation services is defined in the Case Mix Regulation 114.1 CMR 17.02 as:

"Observation services are those furnished on a hospital's premises which are reasonable and necessary to further evaluate a patient's condition and provide treatment to determine the need for possible admission to the hospital. These services include the use of a bed and periodic monitoring by a hospital's physician, nursing and other staff."

#### Nonfatal Injury-Related Emergency Department (ED) Visits:

Source: MA Outpatient Emergency Department Discharge Database, MA Division of Health Care Finance and Policy.

This database contains individuals discharged from any acute care emergency department in Massachusetts. These cases are *not* included in the hospital discharge or observation bed stay databases.

An emergency department injury-related case is defined as:

any case having an ICD9-CM Nature of Injury Code of: 800-908, 9090-9092, 9094, 9099, 910-994, 99550-99559, 99580-99585, assigned to any of the ICD9 diagnosis fields.

Residency is based on patient's state, city/town and ZIP code. Only Massachusetts residents are included in these analyses. Injury-related emergency department cases subsequently dying in the hospital are excluded from these analyses.

#### Population Source (unless otherwise specified):

National Center for Health Statistics. Postcensal estimates of the resident population of the United States for July 1, 2000-July 1, 2008, by year, county, age, bridged race, Hispanic origin, and sex (Vintage 2008). Prepared under a collaborative arrangement with the U.S. Census Bureau; released May 14, 2009. Available from: http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm as of September 2, 2009

#### Residency:

Analyses for injury *deaths* include Massachusetts residents who died in or out-of-state. All other analyses include Massachusetts residents admitted and released from a Massachusetts acute care hospital or treated and discharged from an emergency department. Massachusetts residents treated at hospitals out-of-state are not included. Non-Massachusetts residents were excluded from *all* analyses presented in this report.

#### External Cause of Injury (E-Code) Rates:

Among hospital discharge data, 96% of cases for which one of the diagnostic fields was coded as an injury had an external cause of injury code provided. Among observation bed stay data the percentage was 84.6%, and among emergency department data, the percentage was 98.6%. Overall, E-Codes were assigned to 98.3% of all injury-related cases.

#### **Data Limitations and Exclusions:**

<u>Limitations of Small Numbers</u>: Cells in some tables contain small numbers. Rates and proportions based on less than 5 deaths and less than 7 nonfatal injuries (based on MA Division of Health Care, Finance, and Policy guidelines) are suppressed. Rates based upon small numbers (<20) should be interpreted cautiously as rates can fluctuate greatly from year to year with even a small increase or decrease in the number of cases.

<u>Exclusions</u>: Due to data quality issues, the external cause of injury codes (E-Codes) for two hospitals were excluded from all ED analysis between 2002 and 2007. Total injury counts presented in this report include primary diagnostic codes for these hospitals, but associated diagnostic codes have been excluded.

#### Rates:

All rates reported (i.e., crude, age-adjusted, and age-specific) are per 100,000 individuals.

#### **Crude Rate**

The crude rate represents the number of health events occurring in a specified population over a specified time period. It is calculated as follows.

#### Age-Specific Rate

A rate for a specified age group is calculated by dividing the actual number of cases in a given year for a specific age group by the population in that age group for that year. The numerator (number of cases) and the denominator (population) refer to the same age group.

#### Age-Adjusted Rate

The age-adjusted rate is a summary rate designed to minimize the distortions created by differences in age distribution when comparing rates for populations with different age compositions. Age-adjusted rates are useful when comparing death rates from different populations or in the same population over time. For example, if one wished to compare the 1998 death rates between Barnstable County (Cape Cod) and Hampshire County, the age-adjusted formula would account for the fact that 24% of the Barnstable County residents were 65 years of age or older, whereas only 11% of the Hampshire County residents were in this age group.

Age-adjusted rates are calculated by weighting the age-specific rates for a given year by the age distribution of a standard population. The weighted age-specific rates are then added to produce the adjusted rate for all ages combined.

## **APPENDIX A**

	2	רואס אל א			
Recommended	Recommended Framework of E-code Groupings for Presenting Injury Morbidity I	3roupings for F	resenting Injury	Morbidity Data*	
Mechanism/Cause	l'aintentionel	Solf inflicted	Intent	Indetermined	Other
	E020 0- 0	F056	, toodan	F086	
Cut/pierce	E830 0- 9 E832 0- 9	F954	F964	F984	□9/4
Drowning/submersion	E910.09	T-0-0-1		1	
Fall	E880.0-E886.9, E888	E957.09	E968.1	E987.09	
Fire/burn: Fire/flame	E890.0-E899	E958.1	E968.0, E979.3	E988.1	
Fire/burn: Hot object/substance	E924.09	E958.2,.7	E961, E968.3	E988.2,.7	
Firearm	E922.03,.8, .9	E955.04	E965.0-4, E979.4	E985.04	E970
Machinery	E919 (.09)				
Motor vehicle traffic	E810-E819 (.09)	E958.5	E968.5	E988.5	
Occupant	E810-E819 (.0,.1)				
Motorcyclist	E810-E819 (.2,.3)				
Pedal cyclist	E810-E819 (6)				
Pedestrian	E810-E819 (.7)				
Unspecified	E810-E819 (.9)				
	E800-E807 (.3)				
	E827-E829 (.1)				
	E800-807 (.2)				
Pedestrian, other	E820-E825 (.7)				
	E826-E829 (.0)				
	F820-F825 ( 0- 5 8 9)	Г900.0		Г900.0	
	E826.28				
Transport, other	E827-E829 (.29),				
	E831.09, E833.0-				
Natural/environmental	E909, E928.02	E958.3		E988.3	
Dog bites	E906.0				
Overexertion	E927.04,.89				
Poisoning	E000.U-E009.9	E90.U-E922.9	9.0,./	E300.0-E302.9	E972
Struck by, against	E916-E917.9		E960.0; E968.2		E9/3, E9/5
Suffocation	E911-E913.9	E953.09	E963	E983.09	
		E955(.5,.6,.7,.9),	35(.59),	.7),	E971, E978, E990.0-
	.5). E923(.09). E925.0-	L300(.0,.4)	E968(.467).	F300(.0,.+)	E995.4. E996.0-
Other specified and classifiable	E926.9, E928(.36), E929(.0-		E979(.02), E979(.5-		E996.3, E997(.02),
	.5)		.9)		E998 (.01)
Other specified, not elsewhere					
i .					
Unspecified	E887, E928.9, E929.9	E958.9	E968.9	E988.9	E998.9 s, 200
Adverse effects: Medical care					E870-E879
Adverse effects: Drugs					
All injury by Intent	F800-F869 F880-F929	F950-F959	E960-E969, <b>E979</b> , F999 1	F980-F989	E970-E978, E990- F999

All external causes

E800-E999

\*Modified version of the CDC Recommended E-Code Groupings for Presenting Injury Morbidity, National Center for Injury Prevention and Control, Centers for Disease Control and Prevention.

E999.1 E800-E999

## APPENDIX B

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Mechanism/Cause	Recollillerided Flainework of E-code Gloupings for Flesenting Injury Mortainy Data	oupings ioi ri	Intent	WOI LAIRLY DALA	
	Unintentional	Self-inflicted	Assault	Undetermined	Other
Cut/pierce	W25-W29, W45	X78	X99		Y35.4
Drowning/submersion	W65-W74	X71	X92	X21	
Fall	W00-W19	X80	Y01	Y30	
Fire/burn: Hot object/substance	X10_X10	X77	X08		Y36.3
	W32-W34	X72-X74	X93-X95. U01.4	-Y24	Y35.0
Machinery	W24, W30-W31				
Motor vehicle traffic:					
Occupant	-0.) 987-887 (6:-7) 647-057	•			
Motorcyclist	V20-V28 (.39), V29 (.49)				
Pedal cyclist	V12-V14 (.39), V19 (.46)				
Pedestrian	V02-V04 (.1, .9), V09.2				
Other	V80 (.35), V81.1, V82.1				
Unspecified	V87 (.08), V89.2				
Pedal cyclist, other	V10-V11, V12-V14 (.02), V15-V18, V19 (.03, .8, .9)				
Pedestrian, other	V01, V02-V04 (.0), V05, V06, V09 (.0, .1, .3, .9)				
Land Transport, other	V20-V28 (.02), V29 (.03), V30-V79 (.03), V80 (.02, .69), V81-V82 (.0, .29), V83-V86 (.49), V87.9, V88 (.09), V89 (.0, .1, .3, .9)	X82	Y03	Y32	
Transport, other	V90-V99		U01.1		Y36.1
Natural/environmental	W42-W43, W53-W64, W92-				
Overexertion	X50				
	X40-X49	X60-X69	X85-X90, U01(.6,	91Y-01Y	Y35.2
Struck by, against	W20-W22, W50-W52	X79	Y00, Y04	Y29	Y35.3
Suffocation		X70	X91	Y20	
Other specified and classifiable	W23, W35-W41, W44, W49,	X75, X81, U03.0	X96, Y02, Y05- Y07, U01 (.0, .2, .5)	Y25-Y31	Y35 (.1, .5), Y36 (.0, .2, .48)
Other specified, not elsewhere classifiable	X58, Y86	X83, Y87.0	Y08, Y87.1, U01.8, U02	Y33, Y87.2	Y35.6, Y89 (.0, .1)
Unspecified	X59	X84, U03.9	Y09, U01.9	Y34, Y89.9	Y35.7, Y36.9
Adverse effects: Medical care					Y40-Y59, Y88.0
Adverse effects: Drugs					Y60-Y84, Y88 (.1- .3)
All injury by Intent	98A-58A '65X-10A	X60-X84, Y87.0, U03	X85-Y09, Y87.1, U01, U02	Y10-Y34, Y87.2, Y89.9	Y35-Y36, Y89.0, Y89.1
All external causes		V01-Y36, Y8	V01-Y36, Y85-Y87, Y89, U01-U03	103	

<sup>\*</sup>CDC Recommended E-Code Groupings for Presenting Injury Mortality, National Center for Injury Prevention and Control, Centers for Disease Control and Prevention.

## APPENDIX C

# Interpretation of Selected E-Codes

The following list provides sample scenarios to assist with the interpretation of ICD9 External Cause of Injury codes. This is *not* a comprehensive listing.

Strangled by another person.	E963	Assault-Related	Suffocation/hanging
Collided with another player during football game.			
Struck by falling box. Crushed fingers in car door.	E916-918	Unintentional	Struck by/against
	EQUE 0		earthquake, etc.)
bee, wasp, spider, scorpion.	E906.05		insect stings,
snake, etc Bitten or stung by an insect, including	E905.9		(e.g., animal bites,
Ritten by any animal including dog cat rat or	೯೦೧೩ ೧-೯೦೧೩ ಅ	I Inintentional	Nature/Environment:
Child drank cleanser from bottle under sink.  Unknowingly ate poisonous mushroom.	E850.0-E869.9	Unintentional	
Purposely breathed exhaust tumes from car. Intentional overdose of sleeping pills.	E950.0-E952.9	Self-Inflicted	
Served a drink intentionally laced with drug.	E962.0-E962.9	Assault-Related	Poisoning/overdose
wheeler.	E826-E829(.0)		related
Collision with bicycle courier. Run over by three-	E820-E825(.7)	Unintentional	non-motor vehicle-
	E800-E807(.2)		motor vehicle &
Pedestrian hit by car while walking across street.	E810-E819(.7)	Unintentional	Pedestrian:
Ran into a dog with tricycle (pedal cyclist injured).	E827-E829(.1)		
pedestrian on the sidewalk (pedestrian injured).	E826.9		related
Fell off bike on mountain trail. Ran into a	E826.1	Unintentional	non-motor vehicle-
	E820-E825(.6)		-
in the street.	E800-E807(.3)		motor vehicle &
Iniury to pedal cyclist hit by a car while riding bike	E810-E819(.6)	Unintentional	Pedal Cvcle:
Pulled muscle during sports. Twisted ankle walking down stairs. Injured back lifting heavy boxes.	E927	Unintentional	Overexertion
Injury to someone involved in motor vehicle crash but unknown if occupant, or other person.	E810-E819(.8, .9)	Unintentional	Motor Vehicle Traffic -Unspecified
passenger.			-Occupalit
Car rear-ended at stop sign. Head on collision with	E810-E819(.0, .1)	Unintentional	Motor Vehicle Traffic
Driver purposely ran into telephone pole.	E958.5	Self-Inflicted	Motor Vehicle Traffic -Occupant
Rider injured in crash with truck. Motorcycle slid on gravel.	E810-E819(.2, .3)	Unintentional	Motor Vehicle Traffic -Motorcycle
Spilled hot coffee. Burned on stove. Burned in bath water that was too hot.	E890.0-E899, E924.0- E924.9	Unintentional	
Purposely burned oneself with cigarette.	E958.1, E958.2, 958.7	Self-Inflicted	
Purposely burned by boiling water thrown by another person.	E961, E968.0, E968.3	Assault-Related	Fire/Bum
Fell during football game.			
Fell from bed. Tripped down stairs. Slipped on ice.	E880.0-E886.9, E888	Unintentional	
Jumped off building with intent to harm self	E957 0-E957 9	Self-Inflicted	all
Dushod down a flight of stairs	Engo 4	Assault Dolated	E
Cassala		Intent	Mechanism/Cause

#### City and Town Listing by County:

WASHINGTON

#### Return to Table 12

•	0,	•						
<u>Barnstable</u>	Berkshire (cont.)	<u>Essex</u>	<u>Franklin</u>	Hampden (cont.)	Middlesex (cont.)	<u>Nantucket</u>	Plymouth (cont.)	Worcester (cont.)
BARNSTABLE	W. STOCKBRIDGE	AMESBURY	ASHFIELD	WALES	DUNSTABLE	NANTUCKET	KINGSTON	HOLDEN
BOURNE	WILLIAMSTOWN	ANDOVER	BERNARDSTON	WEST SPRINGFIELD	EVERETT		LAKEVILLE	HOPEDALE
BREWSTER	WINDSOR	BEVERLY	BUCKLAND	WESTFIELD	FRAMINGHAM	<u>Norfolk</u>	MARION	HUBBARDSTON
CHATHAM		BOXFORD	CHARLEMONT	WILBRAHAM	GROTON	AVON	MARSHFIELD	LANCASTER
DENNIS	<u>Bristol</u>	DANVERS	COLRAIN	SPRINGFIELD	HOLLISTON	BELLINGHAM	MATTAPOISETT	LEICESTER
EASTHAM	ACUSHNET	ESSEX	CONWAY	TOLLAND	HOPKINTON	BRAINTREE	MIDDLEBOROUGH	LEOMINSTER
FALMOUTH	ATTLEBORO	GEORGETOWN	DEERFIELD		HUDSON	BROOKLINE	NORWELL	LUNENBURG
HARWICH	BERKLEY	GLOUCESTER	ERVING	<u>Hampshire</u>	LEXINGTON	CANTON	PEMBROKE	MENDON
MASHPEE	DARTMOUTH	GROVELAND	GILL	AMHERST	LINCOLN	COHASSET	PLYMOUTH	MILFORD
ORLEANS	DIGHTON	HAMILTON	GREENFIELD	BELCHERTOWN	LITTLETON	DEDHAM	PLYMPTON	MILLBURY
PROVINCETOWN	EASTON	HAVERHILL	HAWLEY	CHESTERFIELD	LOWELL	DOVER	ROCHESTER	MILLVILLE
SANDWICH	FAIRHAVEN	IPSWICH	HEATH	CUMMINGTON	MALDEN	FOXBOROUGH	ROCKLAND	NEW BRAINTREE
TRURO	FALL RIVER	LAWRENCE	LEVERETT	EASTHAMPTON	MARLBOROUGH	FRANKLIN	SCITUATE	NORTH BROOKFIELD
WELLFLEET	FREETOWN	LYNN	LEYDEN	GOSHEN	MAYNARD	HOLBROOK	WAREHAM	NORTHBOROUGH
YARMOUTH	MANSFIELD	LYNNFIELD	MONROE	GRANBY	MEDFORD	MEDFIELD	W. BRIDGEWATER	NORTHBRIDGE
Dorkobiro	NEW BEDFORD	MANCHESTER	MONTAGUE	HADLEY	MELROSE	MEDWAY	WHITMAN	OAKHAM
<u>Berkshire</u>	NORTH ATTLEBORO	MARBLEHEAD	NEW SALEM	HATFIELD	NATICK	MILLIS	0 " "	OXFORD
ADAMS	NORTON	MERRIMAC	NORTHFIELD	HUNTINGTON	NEWTON	MILTON	Suffolk	PAXTON
ALFORD	RAYNHAM	METHUEN	ORANGE	MIDDLEFIELD	NORTH READING	NEEDHAM	BOSTON	PETERSHAM
BECKET CHESHIRE	REHOBOTH	MIDDLETON	ROWE	NORTHAMPTON PELHAM	PEPPERELL	NORFOLK	CHELSEA REVERE	PHILLIPSTON
CLARKSBURG	SEEKONK SOMERSET	NAHANT NEWBURY	SHELBURNE SHUTESBURY	PLAINFIELD	READING SHERBORN	NORWOOD PLAINVILLE	WINTHROP	PRINCETON ROYALSTON
DALTON	SWANSEA	NEWBURYPORT	SUNDERLAND	SOUTH HADLEY	SHIRLEY	QUINCY	WINTINOF	RUTLAND
							Morgostor	
EGREMONT FLORIDA	TAUNTON WESTPORT	N. ANDOVER	WARWICK WENDELL	SOUTHAMPTON	SOMERVILLE	RANDOLPH	Worcester	SHREWSBURY
GREAT BARRINGTON	WESTPORT	PEABODY ROCKPORT	WHATELY	WARE WESTHAMPTON	STONEHAM STOW	SHARON STOUGHTON	ASHBURNHAM ATHOL	SOUTHBOROUGH SOUTHBRIDGE
	Dukoo		WHATELT					
HANCOCK	<u>Dukes</u>	ROWLEY	Hammalan	WILLIAMSBURG	SUDBURY	WALPOLE	AUBURN	SPENCER
HINSDALE	AQUINNAH	SALEM	<u>Hampden</u>	WORTHINGTON	TEWKSBURY	WELLESLEY	BARRE	STERLING
LANESBOROUGH	CHILMARK	SALISBURY SAUGUS	AGAWAM BLANDFORD	Middlesex	TOWNSEND TYNGSBOROUGH	WESTWOOD	BERLIN BLACKSTONE	STURBRIDGE SUTTON
LEE LENOX	EDGARTOWN GOSNOLD	SWAMPSCOTT	BRIMFIELD	ACTON	WAKEFIELD	WEYMOUTH WRENTHAM	BOLTON	TEMPLETON
MONTEREY	OAK BLUFFS	TOPSFIELD	CHESTER	ARLINGTON	WALTHAM	WINCHITIAN	BOYLSTON	UPTON
						Plymouth		
MT WASHINGTON NEW ASHFORD	TISBURY WEST TISBURY	WENHAM WEST NEWBURY	CHICOPEE E. LONGMEADOW	ASHBY ASHLAND	WATERTOWN WAYLAND	ABINGTON	BROOKFIELD CHARLTON	UXBRIDGE WARREN
NEW MARLBOROUGH	WEST HODOKT	WEST NEWBORT	GRANVILLE	AYER	WESTFORD	BRIDGEWATER	CLINTON	WEBSTER
NORTH ADAMS			HAMPDEN	BEDFORD	WESTON	BROCKTON	DOUGLAS	WEST BOYLSTON
OTIS			HOLLAND	BELMONT	WILMINGTON	CARVER	DUDLEY	WEST BROOKFIELD
PERU			HOLYOKE	BILLERICA	WINCHESTER	DUXBURY	EAST BROOKFIELD	WESTBOROUGH
PITTSFIELD			LONGMEADOW	BOXBOROUGH	WOBURN	E. BRIDGEWATER	FITCHBURG	WESTMINSTER
RICHMOND			LUDLOW	BURLINGTON		HALIFAX	GARDNER	WINCHENDON
SANDISFIELD			MONSON	CAMBRIDGE		HANOVER	GRAFTON	WORCESTER
SAVOY			MONTGOMERY	CARLISLE		HANSON	HARDWICK	
SHEFFIELD			PALMER	CHELMSFORD		HINGHAM	HARVARD	
STOCKBRIDGE			RUSSELL	CONCORD		HULL	Injuries to Mar	ssachusetts Residents, 2008
TYRINGHAM			SOUTHWICK	DRACUT		Injur	•	Department of Public Health

Injuries to Massachusetts Residents, 2008
Injury Surveillance Program, MA Department of Public Health
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### City and Town Listing by Community Health Network Area (CHNA) CHNA 1 CHNA 2 (continued) CHNA 5 (continued) CHNA 9 CHNA 13

PETERSHAM

**PHILLIPSTON** 

ROWE

SOUTHBRIDGE

STURBRIDGE

SPENCER

WORCESTER

ROWLEY

SALISBURY

WEST NEWBURY

Oity and Town		illinality riea				
CHNA 1	CHNA 2 (continued)	CHNA 5 (continued)	CHNA 9	<u>CHNA 13</u>	CHNA 18	<u>CHNA 23</u>
ADAMS	ROYALSTON	WALES	ASHBURNHAM	BEVERLY	DEDHAM	CARVER
ALFORD	SHELBURNE	WARREN	ASHBY	ESSEX	DOVER	DUXBURY
BECKET	SHUTESBURY	WEBSTER	AYER	GLOUCESTER	NEEDHAM	HALIFAX
CHESHIRE	SUNDERLAND	WEST BROOKFIELD	BARRE	HAMILTON	NEWTON	HANOVER
CLARKSBURG	WARWICK		BERLIN	IPSWICH	WALTHAM	HANSON
DALTON	WENDELL	CHNA 6	BOLTON	MANCHESTER	WELLESLEY	KINGSTON
EGREMONT	WHATELY	BELLINGHAM	CLINTON	ROCKPORT	WESTON	MARSHFIELD
FLORIDA		BLACKSTONE	FITCHBURG	TOPSFIELD	WESTWOOD	PEMBROKE
GREAT BARRINGTON	CHNA 3	DOUGLAS	GARDNER	WENHAM		PLYMOUTH
HANCOCK	AMHERST	FRANKLIN	GROTON		<u>CHNA 19</u>	PLYMPTON
HINSDALE	BELCHERTOWN	HOPEDALE	HARDWICK	<u>CHNA 14</u>	BOSTON	ROCKLAND
LANESBOROUGH	CHESTERFIELD	MEDWAY	HARVARD	DANVERS	BROOKLINE	
LEE	CUMMINGTON	MENDON	HUBBARDSTON	LYNN	CHELSEA	CHNA 24
LENOX	EASTHAMPTON	MILFORD	LANCASTER	LYNNFIELD	REVERE	ATTLEBORO
MONTEREY	GOSHEN	MILLVILLE	LEOMINSTER	MARBLEHEAD	WINTHROP	BERKLEY
MOUNT WASHINGTON	GRANBY	NORTHBRIDGE	LUNENBURG	NAHANT		DIGHTON
NEW ASHFORD	HADLEY	SUTTON	NEW BRAINTREE	PEABODY	CHNA 20	LAKEVILLE
NEW MARLBOROUGH	HATFIELD	UPTON	OAKHAM	SALEM	BRAINTREE	MANSFIELD
NORTH ADAMS	MIDDLEFIELD	UXBRIDGE	PEPPERELL	SAUGUS	CANTON	MIDDLEBOROUGH
OTIS	NORTHHAMPTON		PRINCETON	SWAMPSCOTT	COHASSET	NORTH ATTLEBOROUGH
PERU	PELHAM	CHNA 7	RUTLAND		HINGHAM	NORTON
PITTSFIELD	PLAINFIELD	ASHLAND	SHIRLEY	CHNA 15	HULL	RAYNHAM
RICHMOND	SOUTH HADLEY	FOXBOROUGH	STERLING	ACTON	MILTON	REHOBOTH
SANDISFIELD	SOUTHAMPTON	FRAMINGHAM	TEMPLETON	BEDFORD	NORWELL	SEEKONK
SAVOY	WARE	HOLLISTON	TOWNSEND	BOXBOROUGH	NORWOOD	TAUNTON
SHEFFIELD	WESTHAMPTON	HOPKINTON	WESTMINSTER	BURLINGTON	QUINCY	
STOCKBRIDGE	WILLIAMSBURG	HUDSON	WINCHENDON	CARLISLE	RANDOLPH	CHNA 25
TYRINGHAM	WORTHINGTON	MARLBOROUGH		CONCORD	SCITUATE	FALL RIVER
WASHINGTON		MAYNARD	CHNA 10	LEXINGTON	SHARON	SOMERSET
WEST STOCKBRIDGE	CHNA 4	MEDFIELD	BILLERICA	LINCOLN	WEYMOUTH	SWANSEA
WILLIAMSTOWN	AGAWAM	MILLIS	CHELMSFORD	LITTLETON		WESTPORT
WINDSOR	BLANDFORD	NATICK	DRACUT	WILMINGTON	CHNA 21	
	EAST LONGMEADOW	NORFOLK	DUNSTABLE	WINCHESTER	CHESTER	CHNA 26
CHNA 2	GRANVILLE	NORTHBOROUGH	LOWELL	WOBURN	CHICOPEE	ACUSHNET
ASHFIELD	HAMPDEN	PLAINVILLE	TEWKSBURY		HOLYOKE	DARTMOUTH
ATHOL	LONGMEADOW	SHERBORN	TYNGSBOROUGH	CHNA 16	HUNTINGTON	FAIRHAVEN
BERNARDSTON	MONSON	SOUTHBOROUGH	WESTFORD	EVERETT	LUDLOW	FREETOWN
BUCKLAND	PALMER	STOW		MALDEN	MONTGOMERY	MARION
CHARLEMONT	RUSSELL	SUDBURY	CHNA 11	MEDFORD	WESTFIELD	MATTAPOISETT
COLRAIN	SOUTHWICK	WALPOLE	ANDOVER	MELROSE		NEW BEDFORD
CONWAY	SPRINGFIELD	WAYLAND	LAWRENCE	NORTH READING	CHNA 22	ROCHESTER
DEERFIELD	TOLLAND	WESTBOROUGH	METHUEN	READING	ABINGTON	WAREHAM
ERVING	WEST SPRINGFIELD	WRENTHAM	MIDDLETON	STONEHAM	AVON	
GILL	WILBRAHAM		NORTH ANDOVER	WAKEFIELD	BRIDGEWATER	CHNA 27
GREENFIELD		CHNA 8			BROCKTON	AQUINNAH
HAWLEY	CHNA 5	AUBURN	CHNA 12	CHNA 17	EAST BRIDGEWATER	
HEATH	BRIMFIELD	BOYLSTON	AMESBURY	ARLINGTON	EASTON	BOURNE
LEVERETT	BROOKFIELD	GRAFTON	BOXFORD	BELMONT	HOLBROOK	BREWSTER
LEYDEN	CHARLTON	HOLDEN	GEORGETOWN	CAMBRIDGE	STOUGHTON	CHATHAM
MONROE	DUDLEY	LEICESTER	GROVELAND	SOMERVILLE	WEST BRIDGEWATER	
MONTAGUE	EAST BROOKFIELD	MILLBURY	HAVERHILL	WATERTOWN	WHITMAN	DENNIS
NEW SALEM	HOLLAND	PAXTON	MERRIMAC			EASTHAM
NORTHFIELD	NORTH BROOKFIELD	SHREWSBURY	NEWBURY			EDGARTOWN
ORANGE	OXFORD	WEST BOYLSTON	NEWBURYPORT			LD OAKTOWN
DETEROLIANA	OXFORD	WEST BUILSTON	INCAMPOR LEACH			ı

Return to Table 13

CHNA 27 (continued)

FALMOUTH
GOSNOLD
HARWICH
MASHPEE
NANTUCKET
OAK BLUFFS
ORLEANS
PROVINCETOWN
SANDWICH
TISBURY
TRURO
WELLFLEET
WEST TISBURY
YARMOUTH